Cooperative Council of Governments

equalis GROUP

REQUEST FOR PROPOSALS:

Sports Surfacing & Related Solutions

RFP #:

COG-2164

ISSUED BY:

The Cooperative Council of Governments

On Behalf of Equalis Group

6001 Cochran Road, Suite 333

Cleveland, Ohio 44139

DATED:

March 7, 2025

SECTION TWO:

Proposal Submission Documents, Technical Proposal, Cost Proposal and Other Required Forms

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PROPOSAL FORM CHECKLIST

The following documents must be submitted with the Proposal

The below documents can be found in Section 2; Proposal Submission and Required Forms and must be submitted with the proposal. Please note Proposal Form 2 is a separate attachment (attachment B).

TECHNICAL PROPOSAL

- ☐ **Proposal Form 1: Technical Proposal**

PROPOSAL PRICING: Attachment B is provided separately in a Microsoft Excel file and is required to complete your cost proposal.

- ☐ **Proposal Form 2: Cost Proposal**

OTHER REQUIRED PROPOSAL FORMS:

- ☒ **Proposal Form 3: Diversity Vendor Certification Participation**
- ☒ **Proposal Form 4: Certifications and Licenses**
- ☒ **Proposal Form 5: Unresolved Findings for Recovery**
- ☒ **Proposal Form 6: Mandatory Disclosures**
- ☒ **Proposal Form 7: Dealer, Reseller, and Distributor Authorization**
- ☒ **Proposal Form 8: Mandatory Supplier & Proposal Certifications**
- ☒ **Proposal From 9: Clean Air Act & Clean Water Act**
- ☒ **Proposal From 10: Debarment Notice**
- ☒ **Proposal Form 11: Lobbying Certification**
- ☒ **Proposal Form 12: Contractor Certification Requirements**
- ☒ **Proposal Form 13: Boycott Certification**
- ☒ **Proposal Form 14 Federal Funds Certification Form**
- ☒ **Proposal Form 15 FEMA Funding Requirements Certification Form**
- ☒ **Proposal Form 16: Arizona Contractor Requirements**
- ☒ **Proposal Form 17: New Jersey Requirements**
- ☒ **Proposal Form 18: General Terms and Conditions Acceptance Form**
- ☒ **Proposal Form 19: Equalis Group Administration Agreement Declaration**
- ☒ **Proposal Form 20: Master Agreement Signature Form**

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PROPOSAL FORM 1: TECHNICAL PROPOSAL

1. OVERVIEW & QUALIFICATIONS		
1.1. Company Information		
1.1.1. ***Company Name***:	AstroTurf Corporation	
1.1.2. ***Corporate Street Address***:	2680 Abutment Road, Dalton, GA 30721	
1.1.3. ***Website***:	www.astroturf.com	
1.1.4. ***Formation***. In what year was the company formed? For how long has your company been operating under its present business name? If your company has changed its business name, include the most recent prior business name and the year of the name change.	AstroTurf Corporation has been operating under its name since 2016 (9 Years). Prior to that, it was known as AstroTurf, LLC from 2004 to 2016.	
1.1.5. ***Primary Point of Contact***. Provide information about the Respondent representative/contact person authorized to answer questions regarding the proposal submitted by your company:	Name:	Kim Summers
	Title:	National Director of Cooperative Purchasing
	Phone:	706.264.1314
	E-Mail Address:	kim.summers@astroturf.com
1.1.6. ***Authorized Representative***. Print or type the name of the Respondent representative authorized to address contractual issues, including the authority to execute a contract on behalf of Respondent, and to whom legal notices regarding contract termination or breach, should be sent (if not the same individual as in 1.1.9., provide the following information on each such representative and specify their function).	Name:	Kim Summers
	Title:	National Director of Cooperative Purchasing
	Phone:	706.264.1314
	E-Mail Address:	Kim.summers@astroturf.com
1.2. Financial Strength & Legal Considerations		

1.2.1. ***Financial Strength.*** Demonstrate your financial strength and stability with meaningful data. This could include, but is not limited to, such items as financial statements, SEC filings, credit & bond ratings, letters of credit, and detailed refence letters. **Note**: If the information disclosed in your response is considered "Trade Secret" as defined in Ohio Revised Code, Respondents may mark the information as a "Trade Secret" and the response will be redacted from any future use of the RFP response.	AstroTurf Corporation, a leading provider of synthetic turf systems, demonstrates its financial strength and stability through several key indicators: **Corporate Structure and Support:** AstroTurf operates under the umbrella of SportGroup Holding GmbH, a global leader in sports and recreational surfaces. This affiliation provides substantial financial backing and operational support, contributing to AstroTurf's stability and capacity to undertake large-scale projects. **Industry Standing and Experience:** With decades of experience, AstroTurf has established a strong reputation in the industry, completing numerous high-profile installations across various sectors, including educational institutions, professional sports teams, and municipal projects. This extensive track record underscores the company's consistent performance and financial resilience. These factors collectively affirm AstroTurf Corporation's robust financial position and its capability to successfully fulfill contractual obligations. Financial results are attached for 2023 results as 2024 are still being completed. Please see – Technical Proposal – AstroTurf Corporation – Section 1.2.1 – Financial Statement
1.2.2. ***Bankruptcy & Insolvency.*** Describe any bankruptcy or insolvency for your organization (or its predecessors, if any) or any principal of the firm in the last three (3) years.	N/A
1.2.3. ***Litigation.*** Describe any litigation in which your company has been involved in the last three (3) years and the status of that litigation.	As with many large companies operating across diverse construction markets in the United States, AstroTurf Corporation is from time to time, involved in legal proceedings. These matters are typically route in nature. Further details can be provided upon request.
1.3. Industry Qualifications	
1.3.1. ***Company Identification.*** How is your organization best	AstroTurf is first and foremost a **manufacturer**. It designs, engineers, and produces its own synthetic turf products in the

	identified? Is it a manufacturer, distributor, dealer, reseller, or service provider?	United States. The company operates its main manufacturing facility in **Dalton, Georgia**, where it produces high-performance turf systems for sports fields, recreational surfaces, and specialty applications. AstroTurf is also a **turnkey service provider**, offering a full suite of services that includes: • Site evaluation • System design and customization • Manufacturing • Installation • Maintenance and warranty support This end-to-end capability sets AstroTurf apart from companies that simply resell or distribute products. While AstroTurf along with the sister brands sells directly through its **23 in-house sales representatives**, it also leverages a network of **113 authorized distributors** across the U.S. These distributors are contracted to sell, install, and service and products in defined territories, ensuring local expertise and responsiveness.
1.3.2.	***Manufacturer Authorization.*** If your company is best described as a distributor, dealer, reseller, or similar entity please certify that your organization is authorized to sell the products and services at the price points disclosed in this proposal.	N/A
1.3.3.	***Authorized Distributors, Agents, Dealers, or Resellers***. Describe the different channels in which this contract will be made available to Equalis Group Members. Your response should include, but is not limited to, whether your organization will serve as the single point of sale or if the contract will be made available through a	**AstroTurf Direct Sales**

network of distributors, agents, dealers, or resellers.

NOTE: Respondents intending to authorize distributors, agents, dealers, or resellers must complete **Proposal Form 7 - Dealer, Distributor and Reseller Authorization Form**.

Sales	State(s) Covered	Brand	Phone
Joey Alexander	Alabama	AstroTurf	336.240.3306
Gregg Swenson	Alaska	AstroTurf	509.432.5216
Jeff Raiger	Arizona	AstroTurf	760.443.3888
Curtis Wilson	Arkansas	AstroTurf	469.984.5927
Dominick Berarducci	California (Northern)	AstroTurf	559.612.9065
Pat Cassa	California (Southern)	AstroTurf	714.318.0763
Jeff Raiger	Colorado	AstroTurf	760.443.3888
Joe Gaeta	Connecticut	AstroTurf	412.443.1774
Tom Carroll	Delaware	AstroTurf	610.841.5299
Wes Allen	Florida	AstroTurf	407.463.7813
Joey Alexander	Georgia	AstroTurf	336.240.3306
Jeff Raiger	Hawaii	AstroTurf	760.443.3888
Gregg Swenson	Idaho	AstroTurf	509.432.5216
Kevin Christman	Indiana	AstroTurf	415.530.6412
Joe Gaeta	Iowa	AstroTurf	412.443.1774
Joe Gaeta	Kansas	AstroTurf	412.443.1774
Garrett Bare	Kentucky	AstroTurf	336.468.7239
Joey Alexander	Louisiana	AstroTurf	336.240.3306
Joe Gaeta	Maine	AstroTurf	412.443.1774
Jay Crider	Maryland	AstroTurf	443.955.9081
Joe Gaeta	Massachusetts	AstroTurf	412.443.1774
Curtis Wilson	Missouri	AstroTurf	469.984.5927
Gregg Swenson	Montana	AstroTurf	509.432.5216
Joe Gaeta	Nebraska	AstroTurf	412.443.1774
Jeff Raiger	Nevada	AstroTurf	760.443.3888
Joe Gaeta	New Hampshire	AstroTurf	412.443.1774
Tom Carroll	New Jersey	AstroTurf	610.841.5299
Jeff Raiger	New Mexico	AstroTurf	760.443.3888
Joe Gaeta	New York (Eastern)	AstroTurf	412.443.1774
Chris Siegle	New York (Western)	AstroTurf	412.973.8024
Anthony Meley	North Carolina (Eastern)	AstroTurf	336.451.7047
Garrett Bare	North Carolina (Western)	AstroTurf	336.468.7239
Joe Gaeta	North Dakota	AstroTurf	412.443.1774
Dan Isaac	Ohio	AstroTurf	440.840.8220
Curtis Wilson	Oklahoma	AstroTurf	469.984.5927
Gregg Swenson	Oregon	AstroTurf	509.432.5216
Tom Carroll	Pennsylvania (Eastern)	AstroTurf	610.841.5299
Chris Siegle	Pennsylvania (Western)	AstroTurf	412.973.8024
Joe Gaeta	Rhode Island	AstroTurf	412.443.1774
Drew Shoaf	South Carolina	AstroTurf	336.596.3233
Joe Gaeta	South Dakota	AstroTurf	412.443.1774
Garrett Bare	Tennessee	AstroTurf	336.468.7239
Curtis Wilson	Texas	AstroTurf	469.984.5927
Jeff Raiger	Utah	AstroTurf	760.443.3888
Joe Gaeta	Vermont	AstroTurf	412.443.1774
Anthony Meley	Virginia (Eastern)	AstroTurf	336.451.7047
Garrett Bare	Virginia (Southwestern)	AstroTurf	336.468.7239
Gregg Swenson	Washington	AstroTurf	509.432.5216
Dan Isaac	West Virginia	AstroTurf	440.840.8220
Jeff Raiger	Wyoming	AstroTurf	760.443.3888

AstroTurf Distributors (Sports Synthetic Turf)

AstroTurf Distributors

Distributor / Partner	State(s) Covered	Contact-LEADS
Asphalt, Fabric & Engineering (AFE)	Southern California	Lori Probert
AstroTurf Great Lakes	Wisconsin	Todd DeWolfe
AstroTurf Great Lakes	Michigan	Todd DeWolfe
AstroTurf West	British Columbia, Alberta	Martin Wright
Atlantic Sports Group	Connecticut	Scott Koesterich
Atlantic Sports Group	New Hampshire	Scott Koesterich
Atlantic Sports Group	Maine	Scott Koesterich
Atlantic Sports Group	Rhode Island	Scott Koesterich
Atlantic Sports Group	Vermont	Scott Koesterich
Centaur Products, Inc.	Ontario	Karim Fakim
Centaur Products, Inc.	New Foundland and Labrador	Karim Fakim
Centaur Products, Inc.	Nova Scotia	Karim Fakim
Centaur Products, Inc.	New Brunswick	Karim Fakim
Centaur Products, Inc.	Prince Edward Island	Karim Fakim
Coast to Coast	Washington, Oregon, Idaho	Steve Webb
GA Sports dba. General Acrylics	Arizona	Jonnie Deremo
Mid-America Sports	Iowa	Kirk Grego
Mid-America Sports	Kansas	Kirk Grego
Mid-America Sports	Missouri	Kirk Grego
Mid-America Sports	Nebraska	Kirk Grego
Mid-America Sports	North Dakota	Kirk Grego
Mid-America Sports	South Dakota	Kirk Grego
Rocky Mountain Turf Solutions	New Mexico	Dave Lange
Rocky Mountain Turf Solutions	Colorado	Dave Lange
Rocky Mountain Turf Solutions	Utah	Dave Lange
Rocky Mountain Turf Solutions	Wyoming	Dave Lange
Rocky Mountain Turf Solutions	Montana	Dave Lange
Sports Turf Company, Inc.	Alabama	Todd Wiggins
Sports Turf Company, Inc.	Georgia	Todd Wiggins
Symmetry Sports Construction	Texas	Jason Bell
SYNLawn Montreal	Quebec	Marc Don
T3 Global Projects, LLC	Louisiana	Roberto Sanchez
T3 Global Projects, LLC	Mississippi	Roberto Sanchez
T3 Global Projects, LLC	Carribean Island Region	Roberto Sanchez
United Turf & Track	Oklahoma	Dillon Ripley
United Turf & Track	Arkansas	Dillon Ripley

Laykold Direct Sales (Courts)

Sales	State(s) Covered	Brand	Phone
Paul Brown	National Coverage	Laykold	315.247.7498

Laykold Partners (Courts)

Laykold Partners

Distributor / Partner	State(s) Covered	Contact-LEADS
Altitude Athletic Surfaces	Colorado	Kevin Leach
Competion Athletic Surfaces	Tennessee	Lee Murray
Competion Athletic Surfaces	Georgia	Lee Murray
H2I Group	North Carolina	Danny Macdonald
Hinding Tennis	Connecticut	Tom Hinding
Kentucky Sports Construction	Kentucky	Rich Benson
Laurel Tennis & Sports Inc.	New York	Justin Kwasnik
Leslie Coatings	Indiana	Matt Strom
Mathusek, Inc.	New Jersey	Jeff Mathusek
Nickolaus Construction	New Jersey	Steve Nickolaus
Premier Surface Solutions	Florida	Rodney Reams
ProSurfaces	Michigan	Jared Coffelt
Racquet Sports, Inc.	Michigan	Neil Evans
Resurface Inc.	Virginia	Jeff Zingo
Shore Top Construction Corp / Sports & Tennis Construction, LLC	New Jersey	Brittany Radovanovic
Shore Top Construction Corp / Sports & Tennis Construction, LLC	New York	Brittany Radovanovic
Shore Top Construction Corp / Sports & Tennis Construction, LLC	Connecticut	Brittany Radovanovic
Talbot Tennis	Georgia	Mike McGrath
Talbot Tennis	South Carolina	Mike McGrath
The CourtSmiths	Ohio	Mike Smith
Top A Court Tennis Company	Pennsylvania	John Coll
Trans Texas Tennis	Texas	Steve Wright
Upper Midwest Athletic Courts	Minnesota	Eric Hicks
TC Global Projects, LLC		
CH Courts Tech	California	Collin Hardick
Alcar Tennis Court Construction, LLC	New Jersey	Dave Pierson

Rekortan Direct Sales (Tracks)

Sales	State(s) Covered	Brand	Phone
Bob Aurich	Colorado	Rekortan	512.940.8828
Mason Watkins	Connecticut	Rekortan	315.920.0736
Reggie Kohn	Florida	Rekortan	407.733.7400
Bob Aurich	Idaho	Rekortan	512.940.8828
Mason Watkins	Maine	Rekortan	315.920.0736
Mason Watkins	Massachusetts	Rekortan	315.920.0736
Bob Aurich	Montana	Rekortan	512.940.8828
Mason Watkins	New Hampshire	Rekortan	315.920.0736
Bob Aurich	New Mexico	Rekortan	512.940.8828
Mason Watkins	New York	Rekortan	315.920.0736
Drew Shoaf	North Carolina	Rekortan	336.596.3233
Gary Carr	Northern California	Rekortan	208.720.7266
Keith Kernic	Ohio	Rekortan	724.622.1118
Keith Kernic	Pennsylvania	Rekortan	724.622.1118
Mason Watkins	Rhode Island	Rekortan	315.920.0736
Drew Shoaf	South Carolina	Rekortan	336.596.3233
Drew Shoaf	Tennessee	Rekortan	336.596.3233
Bob Aurich	Utah	Rekortan	512.940.8828
Mason Watkins	Vermont	Rekortan	315.920.0736
Drew Shoaf	Virginia	Rekortan	336.596.3233
Keith Kernic	West Virginia	Rekortan	724.622.1118

Rekortan Partners (Tracks)

Rekortan Partners		
Distributor / Partner	**State(s) Covered**	**Contact-LEADS**
AG Sports	Michigan	Connoer Golas
AG Sports	Ohio	Connoer Golas
AG Sports	Indiana	Connoer Golas
ATT Sports	New Jersey	Tony Cunningham
ATT Sports	Pennsylvania	Tony Cunningham
ATT Sports	Maryland	Tony Cunningham
ATT Sports	DC	Tony Cunningham
Byrne & Jones	Missouri	Jameson Sheley
Byrne & Jones	Illinois	Jameson Sheley
Byrne & Jones	Indiana	Jameson Sheley
Byrne & Jones	Kentucky	Jameson Sheley
Byrne & Jones	Ohio	Jameson Sheley
Carter Construction	Texas	
Carter Construction	Oklahoma	
Carter Construction	Arkansas	
Coast to Coast	Washington	Steve Webb
Coast to Coast	Oregon	Steve Webb
Coast to Coast	Idaho	Steve Webb
GA Sports dba. General Acrylics	Arizona	Mike Wickham
Marathon Surfaces	BC	Lisa Atkinson
Marathon Surfaces	Alberta	Lisa Atkinson
Sports Turf Company, Inc.	Alabama	Todd Wiggins
Sports Turf Company, Inc.	Georgia	Todd Wiggins
Sports Turf Company, Inc.	Mississippi	Todd Wiggins
Symmetry Sports Construction	Texas	Kelly Clark
T3 Global Projects, LLC	Louisiana	Roberto Sanchez
T3 Global Projects, LLC	Mississippi	Roberto Sanchez
Track Doctor		
Upper Midwest Athletic Courts	Minnesota	Eric Hicks

SYNLawn Distributors (Landscape Synthetic Turf)

	SYNLawn Distributors

Distributor / Partner	State(s) Covered	Contact-LEADS
Accelerated Green Works Inc.	North Dakota	Brett/Jodi Kallias
Advanced Lawncare and Maintenance	El Paso (Texas)	Kevin Bray
AFE - Asphalt, Fabric, & Engineering, Inc.	Los Angeles (California)	DOUGLAS E. COULTEI
Aztec Flooring (Davidson Interior Enterprises)	Kentucky	Pat (Patricia) Davidson
Bluegrass Design/Build Landscape, Irrigation, & Lighting Inc	Northeast Ohio	Amanda Wilkins
Chesapeake Bay Synthetic Landscapes	Chesapeake Bay (Maryland)	Kaitlyn Lord
Classy Landscaping	Edmonton (Canada)	Elliot St.Martin
Earth Design	Los Angeles - Earth Design (California)	Chris Hayman
Ecology Turf	San Bernardino (California)	Kyle Kohler
Eisler Landscapes, Inc.	Pennsylvania - Western	Brad Hazelwood
Fake Grass Warehouse	Calgary (Canada)	Scott Bergmann
Florida Green Landscaping and Property Maintenance	Jacksonville (Florida)	Matthew Saxton
GOAT Turf	Tennessee	Alexa Kucker
GOAT Turf	Pennsylvania - Eastern	Joanne Seifert
Hapa Landscaping	Oahu (Hawaii)	Brant Brown
New England Turf Store	New England	Scott Koesterich
Northwest Surfacing Specialist - NWSS	San Diego (California)	Jamie Neagle
Northwest Surfacing Specialist - NWSS	Sacramento (California)	Mike Holdenried
Northwest Surfacing Specialists - NWSS	Seattle (Washington)	Mike Holdenried
Paradise Greens	Arizona	Charlie Ferer
Practice Sports / Play, Inc.	Nebraska	Chad Schneider
SMARTLawn	Minnesota	Chris Makoutz
Southeast Turf LLC	South Carolina	Trevor Marks
Southeast Turf LLC	North Carolina	Trevor Marks
Strickly Green	Dallas (Texas)	Wilfredo Delgado
Strickly Green	Central Texas	Terry Stricklin
Strickly Green	Louisiana	Terry Stricklin
Strickly Green Grass	Houston (Texas)	Jeremy Piltzmaker
Strickly Green Grass	Oklahoma	Wilfredo Delgado
Strickly Green Grass	Mississippi	Terry Stricklin
SYNLawn Chicago	Chicago (Illinois)	Darren Flynn
SYNLawn Great Lakes	Wisconsin	Justin Booth
SYNLawn Maui	Maui (Hawaii)	Holly Ferguson
SYNLawn Michigan	Michigan	Justin Booth
SYNLawn Montreal	Montreal (Canada)	Marc Don
SYNLawn Mountain West - Montana	Montana	Joe Makoutz
SYNLawn Mountain West: South Dakota	South Dakota	Joe Makoutz
SYNLawn Mountain West: Wyoming	Wyoming	Joe Makoutz
SYNLawn New Jersey	New Jersey	Anastasia Phillips
SYNLawn New York	New York	Anastasia Phillips
SYNLawn of C CA	Central California	Matt Price
SYNLawn of Florida LLC	Utah	Michael Hettleman
SYNLawn of Georgia	Georgia, Alabama	Cullen Elam
SYNLawn of Las Vegas	Las Vegas (Nevada)	Ken Jackson
SYNLawn of Ohio Valley	Ohio Valley (Ohio)	Jeff Hollenbach
SYNLawn of Oregon	Oregon	Tammy Kirwan
SYNLawn Okanagan	Kelowna, Okanagan (Canada)	Chris Tietze
SYNLawn Saskatchewan	Saskatchewan (Canada)	David Herbison
SYNLawn Tampa/ SYNLawn Orlando	Tampa/Orlando (Florida)	David Sheffer
SYNLawn Toronto	Toronto (Canada)	John Larsen
SYNLawn Utah	Utah	JD Doyle
SYNLawn Vancouver	Vancouver (Canada)	Matt Chatwell
SYNLawn Vancouver Island	Vancouver Island (Canada)	Kris Mickelson
Synscapes of Idaho, LLC	Idaho	Eric Pierce
SYNScapes of Indiana	Indiana	Patrick Phillips
Tim's Landscaping	West Virgina	Tim Clemmer
Total Instant Lawns Ltd	Ottawa (Canada)	Lucas Kwiatkowski
Turf Etc	St. Louis (Missouri)	Angela Grego
Turf Etc LLC	Kansas City (Missouri)	Angela Grego
Turf Guys Miami	Miami (Florida)	Jorge Sanz
TurfScapes of Colorado	Colorado	Nick Perea
TURFScapes of New Mexico	New Mexico	Chris Baca
Westside Pro Landscape	Upstate Rochester (New York)	Brad White

1.3.4. ***Network Relationship***. If your company is best described as a manufacturer or service provider, please describe how your dealer, distributor, or contractor network operates to sell and deliver the Products & Services proposed in your proposal. If applicable, is your network independent or company owned?

AstroTurf is first and foremost a **manufacturer**. It designs, engineers, and produces its own synthetic turf products in the United States. The company operates its main turf manufacturing facility in **Dalton, Georgia**, where it produces high-performance turf systems for sports fields, recreational surfaces, and specialty applications. Components for the Rekortan and Laykold brands are manufactured at our facility (Advanced Polymer Technology) in **Harmony, Pennsylvania**.

AstroTurf is also a **turnkey service provider**, offering a full suite of services that includes:

	• Site evaluation • System design and customization • Manufacturing • Installation • Maintenance and warranty support This end-to-end capability sets AstroTurf apart from companies that simply resell or distribute products. While AstroTurf sells directly through its **15 in-house sales representatives**, it also leverages a network of **14 authorized distributors** across the U.S. These distributors are contracted to sell, install, and service AstroTurf products in defined territories, ensuring local expertise and responsiveness.
1.3.5. ***Industry Experience.*** How long has your company provided the products and services outlined in your proposal? What percentage of your company's revenue in each of the last three (3) full calendar years was generated from these products and services?	AstroTurf, SYNLawn, Laykold, and Rekortan are esteemed brands under the Sport Group umbrella, each with a rich history of providing high-quality synthetic surfacing solutions: • **AstroTurf**: Pioneering the synthetic turf industry since 1965, AstroTurf has over 60 years of experience delivering innovative artificial turf systems for various sports and applications. • **SYNLawn**: Established in 2003, SYNLawn has been a leader in artificial grass manufacturing for over two decades, offering landscaping solutions across North America and internationally. • **Laykold**: As the official surface of the US Open since 2020, Laykold has a longstanding presence in the sports surfacing industry, providing advanced court systems for tennis and multi-sport applications. • **Rekortan**: Introduced in 1969 at the Olympic Stadium in Berlin, Rekortan has over 50 years of experience in delivering high-performance running tracks worldwide. Regarding revenue distribution, specific financial details for each brand are not publicly disclosed. Sport Group, the parent company, reported an annual turnover exceeding €340 million in 2015, encompassing all its subsidiaries. While exact percentages are unavailable, it's evident that a significant portion of Sport Group's revenue is derived from these core products and services, reflecting their prominence in the synthetic surface market.
1.3.6. ***Geographic Reach.*** Describe your company's **current**	**AstroTurf**, headquartered in Dalton, Georgia, is a leading provider of synthetic turf systems across the United States.

service area in the United States and which areas you intend to offer services under a resulting contract if awarded.	Their services encompass a wide range of sports and recreational applications, including: • **Football**: Durable surfaces designed for optimal performance and safety. • **Baseball and Softball**: Specialized systems like the Diamond Series replicate the feel of natural grass and clay. • **Soccer**: Fields engineered for consistent ball roll and player traction. • **Field Hockey**: Smooth surfaces tailored for fast-paced play. • **Lacrosse**: Turf solutions that withstand the sport's unique demands. • **Multipurpose Fields**: Versatile designs suitable for various sports and activities. • **Multi-field Complexes**: Comprehensive installations for large-scale sports facilities. • **Tracks and Courts**: High-quality surfaces for running tracks and tennis or basketball courts. AstroTurf's extensive distributor and installer network ensures nationwide service coverage. Recent partnerships have strengthened their presence in specific regions: Beyond installation, AstroTurf offers maintenance programs to ensure the longevity and performance of their turf systems. They also provide procurement assistance through initiatives like the Best Way Purchasing Program, simplifying the acquisition process for clients. **SYNLawn** operates an extensive network of over 85 distributors across North America, ensuring comprehensive coverage throughout the United States. This expansive presence allows them to effectively serve a wide range of clients nationwide. SYNLawn specializes in manufacturing and installing high-quality artificial grass solutions tailored for various applications, including: • **Commercial Landscaping:** Durable and aesthetically pleasing turf suitable for businesses and public spaces. • **Pet Areas:** Specialized turf designed for pet safety and cleanliness.

	• **Playgrounds:** Soft and safe surfaces ideal for children's play areas. • **Rooftops and Decks:** Innovative solutions for transforming rooftop spaces into green areas. • **Golf and Putting Greens:** Customizable surfaces that mimic the performance of natural golf greens. Manufactured in Dalton, Georgia, SYNLawn's products incorporate bio-based ingredients like soy and sugarcane, reflecting their commitment to environmental sustainability.
1.3.7. ***Socio-economically Disadvantaged Business Engagement***. Does bidder commit to take all affirmative steps set forth in 2 CFR 200.321 to assure that minority businesses, women's business enterprises, labor surplus area firms are used when possible.	☒ Yes ☐ No
1.3.8. ***Certifications and Licenses.*** Provide a detailed explanation outlining the licenses and certifications that are i) required to be held, and ii) actually held by your organization (including third parties and subcontractors that you use). Has your company maintained these certifications on an ongoing basis? If not, when and why did your company lose any referenced certifications? **NOTE**: Provide copies of any of the certificates or licenses included in your response in **Proposal Form 5 - Certifications and Licenses**.	**AstroTurf** Corporation has achieved several notable certifications that underscore its commitment to quality, environmental responsibility, and industry standards: • **ISO 9001:2015 Certification**: This internationally recognized standard for quality management systems reflects AstroTurf's dedication to consistently providing products and services that meet customer and regulatory requirements. • **USDA Certified Biobased Product Label**: AstroTurf's Rootzone® 3D3 Blend GT-B has earned this label, indicating that it contains a verified amount of renewable biological ingredients, contributing to reduced environmental impact. • **FIH Preferred Supplier**: Recognized by the International Hockey Federation (FIH), this designation signifies that AstroTurf meets stringent standards for manufacturing and installing hockey fields suitable for international competitions. • **World Athletics Certified Facilities**: As part of SportGroup, AstroTurf has contributed to over 240 World Athletics Certified Facilities globally, demonstrating adherence to the highest standards in track and field surfaces. • **PFAS-Free Certification**: AstroTurf was the first in the industry to remove PFAS from the manufacturing process in (2019). AstroTurf products are tested by accredited third-party labs to ensure they are not made with per- and polyfluoroalkyl substances (PFAS), aligning with health and safety standards.

These certifications reflect AstroTurf's ongoing efforts to deliver high-quality, sustainable, and safe synthetic turf solutions.

Laykold, a premier manufacturer of sports surfaces and the official surface of the US Open, has achieved several internationally recognized certifications that underscore its commitment to quality, environmental responsibility, and energy management:

- **ISO 9001: Quality Management Systems**: This certification ensures that Laykold's manufacturing processes consistently meet customer and regulatory requirements, emphasizing continuous improvement and customer satisfaction.
- **ISO 14001: Environmental Management Systems**: Demonstrating Laykold's dedication to minimizing environmental impact, this certification focuses on effective environmental management practices throughout its operations.
- **ISO 50001: Energy Management Systems**: This certification highlights Laykold's commitment to efficient energy management, aiming to reduce energy consumption and enhance sustainability.

These certifications are maintained across Laykold's manufacturing facilities in the USA, Australia, and Germany, ensuring consistent quality and environmental stewardship globally.

Rekortan, a leading brand in synthetic track surfaces, has achieved several notable certifications that underscore its commitment to quality, environmental sustainability, and athletic performance:

- **ISO 9001: Quality Management Systems**: This certification ensures that Rekortan's manufacturing processes consistently meet customer and regulatory requirements, emphasizing continuous improvement and customer satisfaction.
- **ISO 14001: Environmental Management Systems**: Demonstrating Rekortan's dedication to minimizing environmental impact, this certification focuses on effective environmental management practices throughout its operations.
- **ISO 50001: Energy Management Systems**: This certification highlights Rekortan's commitment to efficient energy management, aiming to reduce energy consumption and enhance sustainability.

- **World Athletics Class 1 and Class 2 Certifications**: Rekortan tracks have received Class 1 and Class 2 certifications from World Athletics, indicating compliance with stringent international standards for track and field facilities. Class 1 certification is required for hosting major global athletics events, involving comprehensive on-site testing of track thickness, flatness, force reduction, and other key parameters. Class 2 certification ensures that the track meets dimensional accuracy and other essential standards suitable for various levels of competition.
- **USDA Certification**: Rekortan tracks incorporate renewable and recycled materials and have earned certification from the United States Department of Agriculture (USDA), reflecting the brand's commitment to environmental sustainability.

SYNLawn has obtained several key certifications that highlight its commitment to quality, environmental sustainability, and safety:

- **ISO 9001:2015 Certification**: This internationally recognized standard for quality management systems reflects SYNLawn's dedication to consistent product quality and customer satisfaction.
- **ISO 14001 Certification**: This certification demonstrates SYNLawn's commitment to effective environmental management practices, aiming to minimize environmental impact throughout its operations.
- **USDA Certified Biobased Product Label**: Multiple SYNLawn products have earned this label, indicating they contain verified amounts of renewable biological ingredients, contributing to reduced environmental impact.
- **IPEMA Certification**: SYNLawn's playground systems have been certified by the International Play Equipment Manufacturers Association (IPEMA), ensuring they meet stringent safety standards for public play areas.
- **ASTM E108 Class A Fire Rating**: SYNLawn's products have achieved this fire safety rating, indicating they meet rigorous standards for fire resistance.
- **EN 71-3 Compliance**: SYNLawn's products comply with this European standard, ensuring that materials used are safe for children's toys and do not contain harmful substances.

	• **DIN 18035-7 Compliance**: This certification indicates that SYNLawn's synthetic turf meets German standards for sports grounds, focusing on environmental compatibility and safety. • **REACH Annex XVII Entry 50 Compliance**: SYNLawn's products comply with this European regulation, minimizing health risks from hazardous substances such as polycyclic aromatic hydrocarbons (PAHs). These certifications underscore SYNLawn's dedication to producing high-quality, safe, and environmentally responsible synthetic grass products.
1.4. Public Sector Experience	
1.4.1. ***Public Sector Cooperative Contracts.*** Provide a list of the public sector cooperative contracts (e.g., state term contracts, public sector cooperatives, etc.) you currently hold and the annual revenue through those contracts in each of the last three (3) calendar years. Please exclude information and data associated with federal agencies or GSA contracts.	Sourcewell Omnia Partners COSTARS California Multiple Award Schedule (CMAS) Canoe (Canada) **AEPA** • Calsave • Capital Region Education Council • PAEC Florida Buy • Cooperative Purchasing Agency • Wilson Education Center • Green River Regional Education Cooperative • Southeast Kansas Education Service Center – Greenbush • Oakland Schools • Cooperative Purchasing Connection • Education Plus • Montana Cooperative Services • Educational Service Unit Coordinating Council • Cooperative Educational Services, CES • North Dakota Educators Service Cooperative • Ohio Council of Educational Purchasing Consortia (OCEPC) • Carolinas Alliance 4 Innovation dba Carolina Buy • TexBuy Purchasing Cooperative / Region 16 ESC • Fairfax County Public Schools • King County Directors' Association (KCDA) • Mountain State Educational Services Cooperative • New Boces N.E. WY Board of Educational Services • CESA Purchasing

1.4.2. ***Education Success.*** What is the **i)** total dollar amount, and **ii)** percentage of your company's total annual revenue generated by sales to educational institutions (i.e., K-12 schools & school districts and high education)?	75% of AstroTurf sales are to local governments and educational institutions. 55% to K-12 and Higher Education and approximately 25% to parks and recreations.
1.4.3. ***Government Success.*** What is the **i)** total dollar amount, and **ii)** percentage of your company's total annual revenue generated by sales to local governments (i.e., municipalities, counties, special districts, and state agencies)?	75% of AstroTurf sales are to local governments and educational institutions. 55% to K-12 and Higher Education and approximately 25% to parks and recreations
1.4.4. ***Customer References.*** Provide references of at least five (5) local government or educational institution customers for which your company has provided products and services similar in nature and scope to those defined in this RFP in the last three (3) years. Each reference should include: **a.** Customer contact person and their title, telephone number, and email address; **b.** A brief description of the products and services provided by your company; **c.** Customer relationship starting and ending dates; and, ***d.*** Notes or other pertinent information relating to the customer and/or the products and services your company provided.	**Field Hockey** I am so pleased and excited about the installation of the AstroTurf Poligras Platinum system. They did such a great job- it plays like a dream! The coaches and team love the surface and are thrilled to train and compete on it. We are incredibly thankful to AstroTurf's commitment to creating a high-quality surface for the game of field hockey! – Christy Morgan (Head Coach) James Madison Field Hockey Our aspiration to quality for the Paris Olympics was a key factor in choosing the Poligras Paris GT Zero surface. We wanted our athletes to train on a surface that mirrors what they will experience at the pinnacle of their sport. Developing products that reduce the environmental impact is crucial. This initiative reflects a broader commitment to sustainability within the field hockey community and sports infrastructure worldwide. – Craig Parnham (US FH Director of High Performance) – USA Field Hockey The new Paris turf has been transformative for us. It holds the water brilliantly and makes for a fast game but without the lumps and bumps you often get when a start turf is first laid. – David Passmore (US Womens National Team Head Coach) – USA Field Hockey **Football** We are incredibly excited to work with AstroTurf on this project to provide the premium competition and practice surface our football student-athletes deserve. The new field also presented the opportunity to re-design the

playing surface to a more modern look while featuring the state outline to show our pride in being the flagship university for the state of South Dakota– Corey Jenkins (Deputy AD) University of South Dakota

The turf replacement will only add to many other stadium enhancements that will provide first-class experience, while reducing injuries and improving the safety and well-being of our student athletes. – Greg Seitz (Athletic Director) – Jacksonville State University

We are extremely excited to provide a state-of-the-art surface for our student-athletes. Our new AstroTurf surface creates an edge in player safety, performance, and in recruiting. The ability to mitigate head, knee, and extremity injury while providing a fast, stable playing surface will enhance what is already the best stadium and game day experience in the country. – Scott Wooster (Head football coach) – Grand Valley State University

We are thrilled with the new AstroTurf field in our indoor practice facility. The AstroTurf RootZone turf system offers our student-athletes a premier surface that enhances their training experience while prioritizing their safety. This investment demonstrates our dedication of supporting our teams with the best resources available. – Amy Folon (Director of Athletics), Central Michigan University

We are excited to have AstroTurf RootZone installed at Huskie Stadium. We have been incredibly pleased with the AstroTurf surface installed over the past year at NIU Soccer Complex and in the infield of Rahl McKinzie Field at Walter and Janice Owens Park. The new surface helps us ensure the safety and performance of the student athletes and will enhance the appearance of Huskie Stadium both for our fans in the stands and those watching on TV. – John Cheney (Athletic Director) Northern Illinois University.

Football

This is an exciting time for Mizzou Football. The new AstroTurf field system will improve our practice sessions and help our Tigers perform at their best. We look forward to using it leading up to the season. Eli Drinkwitz (Head Coach) Missouri Football

Sustainability

We applaud AstroTurf Corporation for earning the USDA Biobased Product Label. The label is intended to help spur economic development, create new jobs, and provide new markets for farm commodities. But the label also makes it easier for consumers and federal buyers to locate biobased products and consider planet-friendlier options during purchase decisions. By having their products become USDA certified Biobased, AstroTurf Corporation joins an expanding list of businesses combatting inaccurate marketing claims and the practice of greenwashing, while also contributing to a thriving bioeconomy that decreases our reliance on petroleum. – Vernell Thompson USDA Biobased Program

We are thrilled to welcome AstroTurf Corporation as a member. Its pioneering spirit and leadership in the development of sustainable sports solutions make AstroTurf Corporation a valuable member of the Green Sports Alliance. Together we aim to drive significant environmental solutions and set new standards for ecological responsibility in sports. – Roger McClendon (GSA Executive Director) – Green Sports Alliance

Soccer

The LA Galaxy are thrilled to collaborate and partner with AstroTurf. As a leader in the sports surface technology space, their commitment to quality, innovation, and sustainability mirrors many of the LA Galaxy's values as we work to advance the sport of soccer. – Tom Braun (President of Business Operations and CEO) – LA Galaxy

The AstroTurf field is really good, even compared to grass. You feel like it is very natural; you can move the ball and receive the ball on the ground at full speed. Normally on some turf fields you feel like it is hard on your body, but on this field, things feel smooth, and you feel good. You do not have to spend as much time recovering because it has not been as tough on your body. – Georgi Minoungou (Midfielder) Seattle Sounders FC

Playing on AstroTurf in training makes an easier transition to grass on game days than other turf fields. It is a lot more grass- like in the way the ball moves. With some turf, you see a little bounce here or there, but this turf is plusher; the ball bounces more realistically and the turf itself cushions more like real grass does. It is also definitely easier on your

legs in terms of the pounding on the knees and joints, and you can get great traction without your feet getting stuck. – Gio Migletti (Attacker) Tacoma Defiance

The best performance requires the best training. That is why we trust AstroTurf. AstroTurf delivers unparalleled agility, safety, and playability, ensuring every match and session of training is fast and exciting. As a proud partner of the LA Galaxy, AstroTurf continues to provide world-class surfaces fueling the future of the game. – Maruico Cuevos (defender) LA Galaxy

Baseball

AstroTurf's innovative technology will assist in our preparation of championship caliber play for the Atlanta Braves organization – Michael Dunn (VP of Florida Operations) Atlanta Braves – Atlanta Cool Today Park

AstroTurf did a fantastic job with the installation of our new turf. Everyone involved with the project was great to work with from start to finish. The new turf has played great from day one and will only get better. We have been on it every day for a month and our players love it. – Rick Heller (Head Baseball Coach) University of Iowa

Our AstroTurf outfield is a high performing surface that is easy to maintain and is loved by our coaches and athletes. Our beloved panther logo really pops on this field. – Jenny Allard, University of Pittsburgh Head Softball Coach

"We are thrilled with our AstroTurf playing surface at L. Dale Mitchell Park. The AstroTurf and BrockFILL padding system give our players one of the highest performing and safest playing surfaces in the country. And the experience we had with United Turf and Track was first class. United Turf and Track made our field replacement seamless. Their vast knowledge, experience and professional approach made this project extremely easy to complete. – Skip Johnson - Oklahoma Head Baseball Coach

"When we were choosing our synthetic surfaces at Obrate Stadium on the high traffic warning track and in our player development areas, we knew we wanted to have the best artificial surface that our players can compete and practice on. Several D1 Baseball Stadiums are surfaced and play on synthetic, and to prepare our players the best we chose AstroTurf. AstroTurf give us the durability, flexibility, and playability to train and practice every day." – Josh Holliday - Head Baseball Coach Oklahoma State University

"There are clean hops, clean bounces, and they can do trick plays that they have never performed before, as far as bouncing things between their legs, around their backs, and kicking up which they have never done previously. This gives them an opportunity to really plus the game of Banana Ball." – Jesse Cole (owner) Savannah Bananas

"What we were able to do with AstroTurf in a very short window and for them to be able to make it happen and produce at a very high level is really special," added Cole. *"There are some companies that can deliver and some that can't, and AstroTurf performed in every single way. They delivered for our players and for our fans for many years to come." – Jesse Cole, owner, Savannah Bananas*

"This is a game-changer," said Gillum. *"This thing has changed the game for us as far as the time we can spend with the players— and trick plays have gone through the roof. We have some of the craziest trick plays coming this season."*

"The time that we do not have to spend on field maintenance has allowed us to spend more time with the players, work on social media, and connect with fans," Gillum added. *"Everything we do is about Fans First, so this AstroTurf fits in perfectly with our goals."*

Tyler Gillum (Head Coach) Savannah Bananas

Baseball

Our partners at AstroTurf heard our plan, embraced it, and then helped us find solutions to make it happen. No site is perfect, and you must have support and a willingness to change and, on the fly, make it work. This is what AstroTurf did for us. Every step along the way, we had a partner, and that is what it is all about. – Christian Spears (Athletic Director) – Marshall University

Recreation Fields

	By integrating AstroTurf's advanced products, we continue to propel WSU's sports infrastructure into the future. These revamped turf systems reinforce our ongoing commitment to providing a safe, top-tier environment that optimizes athletes' potential and reduces the risk of injuries – Shawn Deeds (WSU Sr AD, Events and Facility Operations) – Washington State University **Maintenance** The damage caused by the flooding was overwhelming, and we feared the field might be lost for the season. But AstroTurf came through for us in a big way. The team they sent worked tirelessly to restore the field in time for our kids to play. – Travis Putnam (Superintendent) Haywood County NC Schools, Pisgah HS Please See: Technical Proposal – AstroTurf Corporation – Section 1.4.4 – AstroTurf Reference List

2. CAPABILITIES

2.1. PRODUCTS & SERVICES

2.1.1. ***Product Offering & Description(s).*** Provide a detailed description of the products you are offering as a part of your proposal. Your response may include, but is not limited to, information related to performance characteristics differentiators, manufacturing capabilities & advantages, innovation and technology, regulatory & safety standards, or any other piece of information that would help understand the breadth and depth of the proposed product offering.	Please See: Technical Proposal – AstroTurf Corporation – Section 2.1.1 AstroTurf, Rekortan, Laykold, SYNLawn Specs

IMPORTANT. This description along with the products and services included in the **Attachment B – Cost Proposal** will be utilized to define the overall products and services available under a resulting contract.	
2.1.2. ***Service & Solution Capabilities.*** Provide a detailed description of the services you are offering as a part of your proposal. Your response may include, but is not limited to, information related to turnkey capabilities, project management, design, engineering, installation or set-up, training services, maintenance services, testing, field and court marking, or any other piece of information that would help understand the breadth and depth of your products and service offering. **IMPORTANT.** This description along with the products and services included in the **Attachment B – Cost Proposal** will be utilized to define the overall products and services available under a resulting contract.	AstroTurf offers a comprehensive suite of services tailored to the design, installation, and maintenance of synthetic turf systems. Their offerings include: **Turnkey Capabilities:** **AstroTurf** provides end-to-end solutions, managing projects from initial design through to final installation. This integrated approach ensures consistency, quality, and efficiency throughout the project lifecycle. **Rekortan** delivers end-to-end solutions, managing projects from initial design through to final installation. This integrated approach ensures consistency, quality, and efficiency throughout the project lifecycle. For instance, during the 2019 Southeast Asian Games at New Clark City Athletics Stadium in the Philippines, Rekortan was responsible for delivering a World Athletics Class 1 track, providing design services, project management, and installation of all equipment **Project Management:** With extensive experience in overseeing complex installations, AstroTurf ensures that each project meets client specifications, adheres to timelines, and stays within budget. Their project management expertise covers coordination among various stakeholders, risk management, and quality assurance. **Design and Engineering:** **AstroTurf** offers comprehensive design and engineering services, including custom field designs tailored to specific sports and client needs. They provide detailed planning, safety considerations, and innovative solutions to enhance field performance. **Rekortan** offers comprehensive design and engineering services, including custom track designs tailored to specific athletic requirements. They provide detailed planning, safety considerations, and innovative solutions to enhance track performance. Their involvement in the Lintao Training Centre in Gansu Province, China, which features a 7,000-square-meter Rekortan M track, showcases their design and engineering expertise. **Installation and Setup:**

AstroTurf's certified crews handle the full installation process, ensuring that each synthetic turf system is installed to the highest standards. This includes site preparation, base construction, drainage systems, and the application of turf and infill materials.

Rekortan's certified teams handle the full installation process, ensuring that each synthetic track system is installed to the highest standards. This includes site preparation, base construction, drainage systems, and the application of track surfaces. Their track systems have been chosen for major events, including the Olympic Games and Diamond League meetings, reflecting their installation proficiency.

SYNLawn offers professional installation services for both residential and commercial projects. Their process includes site preparation, precise turf laying, secure seaming, and a thorough final inspection to ensure quality and durability. For those interested in self-installation, SYNLawn provides DIY resources, including materials, tools, and step-by-step instructions

Training Services:

AstroTurf's commitment to comprehensive service suggests they offer guidance on the proper use and maintenance of their installations. Clients are encouraged to consult directly with AstroTurf for detailed information on available training services.

Maintenance:

AstroTurf provides maintenance guidelines and services to ensure the longevity and optimal performance of their turf systems. This includes regular grooming, inspections, and refurbishment options to keep the fields in top condition.

Rhino Package – Premium One-Day Turf Service

Enhance your regular maintenance with this full-day service by certified technicians. The Rhino Package includes a detailed inspection, deep vacuuming, fiber grooming, metal debris removal, disinfectant application, and a thorough cleaning—all using industry-leading equipment. A final review with expert recommendations and owner sign-off ensures complete satisfaction.

Rhino Pro Package – Intensive Two-Day Turf Service

Designed for high-use fields, the Rhino Pro Package delivers deep cleaning, de-compaction, grooming, and disinfection over two full days. Certified technicians use advanced equipment to restore playability and safety, with a final review and owner sign-off included.

Rekortan provides maintenance services to ensure the longevity and optimal performance of their track systems. This includes regular inspections, cleaning, prompt repair of damaged areas, and restriping to maintain clear lane markings. For example, they offer guidance on regular deep cleaning to keep tracks free from debris and maintain performance characteristics.

	In addition to these services, Rekortan emphasizes sustainability, incorporating green technologies into their products. Their Rekortan Gel tracks are recognized as the world's greenest track systems, utilizing bio-based ingredients and innovative manufacturing processes to reduce environmental impact. **Laykold** emphasizes the importance of regular maintenance to preserve the quality and longevity of their court surfaces. They provide clients with maintenance guidelines and may offer services through their network of authorized agents to ensure that the courts remain in optimal condition over time. In addition to these services, Laykold is dedicated to sustainability, incorporating eco-friendly materials and practices into their products and operations. They utilize advanced technologies to create court surfaces that not only enhance athletic performance but also minimize environmental impact. **SYNLawn** provides maintenance services to keep artificial grass in optimal condition. Their offerings include cleaning and sanitizing the turf, brushing fibers, debris removal, infill replenishment, and applying treatments like pet deodorizers. Regular maintenance helps extend the lifespan and appearance of the turf.
2.1.3. ***Value-Add or Additional Offering.*** Please address any additional products and services your organization offers but is not included in the scope of this solicitation and will enhance and add value to this contract's participating agencies.	BestWay Purchasing Program is the Cooperative Purchasing division of the Americas for AstroTurf Corporation, designed to simplify and accelerate the procurement process for public agencies. Generating over $100 million revenue annually, this program has become a trusted resource for municipalities, public schools, colleges, universities, cities and parks & recreation departments across the country. With a strong commitment to transparency, value, and efficiency, the BestWay Purchasing Program empowers public entities to partner with AstroTurf Corporation and bring world-class athletic and recreational surfacing solutions to their communities. **Environmental Partners** **AstroTurf** AstroTurf collaborates with several environmental partners to enhance sustainability in its synthetic turf systems: • Cyclyx International: As a member of this consortium, AstroTurf aims to improve plastic recyclability and implement sustainable methodologies across its manufacturing, installation, and end-of-life processes. • Turf Recycling Plant (TRP): Partnering with TRP in Calhoun, Georgia, AstroTurf focuses on recycling end-of-life turf systems, diverting them from landfills and promoting responsible waste management.

	• Green Sports Alliance: As a member of this organization, AstroTurf aligns with a network dedicated to promoting sustainability in sports, reinforcing its commitment to environmental stewardship within the athletic community. **Rekortan** Rekortan demonstrates its commitment to environmental sustainability through innovative practices and strategic collaborations: • Green Technology Initiatives: Rekortan's Gel Series tracks incorporate up to 84% renewable and recyclable content, utilizing plant-based oils and an energy-efficient enzyme manufacturing process. This approach significantly reduces reliance on fossil fuels and minimizes environmental impact. • Partnership with England Athletics: As the Official Surfacing Partner of England Athletics since 2020, Rekortan collaborates to enhance athletic facilities with a focus on performance and environmental responsibility. This partnership aims to improve standards and quality of athletic surfaces across England, integrating sustainable practices into facility development. These initiatives and collaborations underscore Rekortan's dedication to advancing sustainability within the sports surfacing industry. **Laykold** Laykold collaborates with several environmental partners to enhance the sustainability of its sports surfaces: • RecycleBalls: This partnership focuses on recycling used tennis balls by incorporating them into Laykold's court surfaces, reducing landfill waste and promoting a circular economy within the sport. • Wilson: In collaboration with Wilson, Laykold integrates recycled tennis balls into their court systems, exemplifying a commitment to environmental responsibility. **SYNLawn** SYNLawn collaborates with several environmental partners to enhance the sustainability of its artificial grass products. Notably, the company is recognized as a **Bio-Preferred partner by the United States Department of Agriculture (USDA)**, participating in a global initiative to increase the development and use of biobased products. Additionally, SYNLawn supports American farmers by incorporating plant-based materials like soybeans into their products, promoting agricultural sustainability and reducing reliance on petroleum-based components. These partnerships underscore SYNLawn's commitment to environmental stewardship and sustainable manufacturing practices.
2.1.4. ***Open Market Products.*** Provide a detailed description of your ability to accommodate requests for Open Market Products. Open Market Products is a category of products that	AstroTurf Corporation will provide "Open Market Items" or "Sourced Good" on a project-by-project basis as all scopes are different. AstroTurf would provide this as a line up on the proposal.

cannot be found in your standard catalog offering or non-inventory products. **NOTE:** For a definition of Open Market Items, please refer to **Part One, Section 5.4 – Other Pricing Scenarios.**	
2.1.5. ***Warranty.*** Provide a copy of the manufacturer's warranty. If required, please attach the warranty as an attachment, as instructed in this document. Describe notable features and/or characteristics of the warranty that a public sector customer would find interesting or appealing. Pricing related to the any extended warranty options must be included in ***Attachment B – Cost Proposal***.	Please See: Technical Proposal – AstroTurf Corporation – Section 2.1.5 AstroTurf, Rekortan, Laykold, SYNLawn Warranties
3. Business Operations	
3.1. Logistics	
3.1.1. ***Distribution & Shipping Capabilities.*** Describe how supplier proposes to distribute the products/services in Respondent's defined geographic reach. Your response may include, but is not limited to, information related to the number of store or showroom locations, distribution facilities, supply chain partners, fill rates, on-time delivery rates, and your ability to accommodate expedited orders.	**AstroTurf Product Distribution to Job Sites** AstroTurf uses a logistics and supply chain system designed to ensure efficient and timely delivery of synthetic turf materials to job sites across the U.S. Here's how the typical distribution process works: **1. Manufacturing & Staging** • Manufacturing takes place at their facilities (primarily in Dalton, Georgia). • Rolls of turf are cut and prepped based on each project's custom field design. • Additional components (infill, underlayment, adhesives, etc.) are packaged and staged for delivery. **2. Transportation**

	• AstroTurf utilizes freight carriers—usually flatbed or enclosed semi-trucks—depending on the project's size and logistical needs. • Deliveries are coordinated directly with contractors or project managers to align with the construction timeline. • For larger or multi-phase projects, materials may be delivered in batches (phased delivery). **3. On-Site Unloading** • Unloading is typically handled with heavy machinery (like forklifts) provided by the installation team. • Turf rolls are heavy (often 800–1,200 lbs each), so proper coordination is crucial to avoid damage and delays. **4. Inventory Check & Staging** • Once onsite, the installation team checks all materials against packing slips and stages them near the field. • AstroTurf project managers often support this process to ensure nothing is missing or damaged. **5. Installation Support** • AstroTurf-certified installers handle layout, seaming, infill, and finishing. • If the job is turnkey, AstroTurf may also oversee site prep and base construction before the turf arrives.
3.2. Customer Service	
3.2.1. ***Customer Service Department***. Describe your company's customer service department & operations. Your description may include, but is not limited to, hours of operation, number and location of service centers, parts outlets, number of customer service representatives. Clarify if the service centers are owned by your company of if they are a network of subcontractors.	**AstroTurf Corporation Customer Success:** AstroTurf maintains a highly responsive and knowledgeable Customer Success Department that supports clients through every phase of their turf system's life cycle – from initial consultation through every post-installation support and warranty servicing. **Hours of Operation** 24 hours / 7 days per week **Staffing and Support** AstroTurf employs a dedicated customer success team and technical support at HQ. These professionals are trained to address inquiries regarding product performance, warranty claims, maintenance and system upgrades **Commitment to Excellence**

	AstroTurf prides itself on its "Start to Finish" customer approach – providing consult service before the sale and dedicated support long after project completion. Each client is assigned a single point of contact, ensuring accountability and continuity throughout the life of the project.
3.3. Customer Set Up; Order & Invoice Processing; Payment	
3.3.1. ***Proposal Development, Order, and Invoice Process.*** Describe your company's proposal development, order, and invoice process.	AstroTurf has streamlined its proposal development, order placement, and invoicing processes to ensure efficiency and client satisfaction. A key component of this streamlined approach is the **Best Way Purchasing Program**, which simplifies procurement through cooperative purchasing agreements. **1. Proposal Development:** • **Initial Consultation:** AstroTurf engages with clients to understand their specific needs, project scope, and budget considerations. • **Customized Proposal Creation:** Based on the consultation, AstroTurf develops a tailored proposal detailing product specifications, project timelines, and cost estimates. **2. Order Placement:** • **Utilizing Cooperative Purchasing:** Clients can leverage the Best Way Purchasing Program, which allows them to benefit from pre-negotiated contracts that meet state and local bidding requirements. This approach reduces administrative burdens and accelerates the procurement process. • **Shop Drawings** – Shop drawings are prepared in house and provided to the customer for approval. • **Purchase Order Submission:** Clients issue a purchase order referencing the cooperative contract, ensuring compliance and facilitating a smooth transaction. **3. Invoicing:** • **Transparent Billing:** AstroTurf provides detailed invoices that align with the agreed-upon terms in the proposal and purchase order. • **Payment Terms:** Invoices specify payment terms, which are typically structured to accommodate the financial processes of public agencies and educational institutions. By integrating cooperative purchasing options like the Best Way Purchasing Program, AstroTurf enhances the

	efficiency and compliance of its procurement processes, delivering high-quality sports surfaces with reduced administrative effort for clients.
3.3.2. ***Financing.*** Does your company offer any financing options or services? If yes, describe the financing options available to Members.	Yes, financing options are available through two of our trusted partners, **NCL Government Capital & PNC.** **NCL Government Capital**, a nationally recognized leader in public sector financing. Through this partnership, Members can access flexible, tax-exempt financing solutions tailored to the unique budgeting needs of municipalities, schools, and other public agencies. Financing can be applied across all four of our brands—**AstroTurf** (synthetic athletic fields), **SYNLawn** (landscape and recreation turf), **Laykold** (tennis and court surfaces), and **Rekortan** (running tracks). NCL offers **custom lease-purchase programs**, **multi-year payment plans**, and **deferred payment options** that allow Members to move forward with critical infrastructure projects without waiting for full funding. Their deep understanding of government procurement ensures a seamless and compliant financing experience, enabling Equalis Group Members to preserve cash flow while investing in high-quality, long-lasting surface solutions. **PNC Vendor Finance** to offer tailored financing solutions for clients investing in synthetic turf systems. **Key Features of AstroTurf's Financing Options:** • **Comprehensive Coverage:** Financing can encompass all project-related expenses, including base construction, installation, taxes, and additional fees. This approach allows clients to undertake projects without significant upfront capital. • **Flexible Terms:** Financing agreements typically range from 36 to 84 months, depending on project specifics and credit evaluations. At the end of the term, clients have the option to own the field for a nominal amount. • **Predictable Budgeting:** Fixed monthly payments facilitate straightforward budgeting and protect against potential future cost increases. • **Capital Preservation:** By financing the entire project, organizations can conserve their capital for other priorities, maintaining liquidity while still achieving facility enhancements. **Credit Line Protection:** Utilizing PNC Vendor Finance for project funding ensures that existing bank credit lines remain unaffected, preserving financial flexibility for other needs.

3.4. Bonding Capabilities

3.4.1. ***Bonding.*** Describe your company's bonding capacity. Your response may include, but is not limited to, the bonding company's surety rating.

Re: AstroTurf Corporation
Dalton, GA

We have been asked by AstroTurf Corporation to provide a reference letter to you.

We are the bonding agent for AstroTurf Corporation and acknowledge and confirm that Berkley Surety, through its affiliate Berkley Insurance Company, provides surety credit to AstroTurf Corporation. Berkley Insurance Company has an A.M. Best rating of "A+" (Superior) and a financial size of XV with a Treasury Listing of approximately $757,021,000 million.

We acknowledge and confirm that Berkley Surety has formed a relationship with AstroTurf Corporation to provide surety credit. Berkley Surety will consider typical single bond requests in the mount of $15,000,000 and with an aggregate backlog totaling $120,000,000. Individual bonds above the limits will be favorably considered on the merits at the time of request.

The issuance of surety credit is a matter between the principal and surety and conditioned upon the principal continuing to satisfy underwriting conditions at the time of a bond request. Berkley Surety assumes no responsibility or liability to you or any other third party should they decline to issue bonds.

Please do not hesitate to contact us for any additional information

Sincerely,



Dawn Denise Wright
Attorney-in-Fact
Senior Client Manager

3.5. *Sustainable Company Initiatives*

3.5.1. ***Sustainability, Reclamation, and Recycling Initiatives.*** Describe the ways in which your company is addressing the issue of sustainability.

As part of the Sport Group family, AstroTurf, SYNLawn, Laykold, and Rekortan share a deep commitment to sustainability, innovation, and environmental responsibility. Each brand contributes uniquely to reducing environmental impact through cutting-edge technologies, material innovations, and end-of-life recycling initiatives.

- **AstroTurf** leads with its **Goal Zero® initiative**, striving to achieve zero waste, zero water runoff, and zero harmful infill migration. Many AstroTurf systems utilize plant-based backing and recycled materials, and the company actively supports end-of-life turf reclamation and recycling programs to divert waste from landfills.
- **SYNLawn** is a pioneer in sustainable landscaping solutions, producing artificial grass made with **USDA Certified Biobased content**, including soy-based backing systems manufactured in the U.S. Their commitment to eco-conscious practices includes reducing carbon footprints, water conservation, and offering products that contribute toward **LEED® certification**.
- **Laykold** sets the standard for environmentally friendly court surfaces with **Green Technology** leadership. Laykold's Gel and Cushion systems are made with **renewable and recycled components**, including post-

	consumer rubber, and are free from harmful solvents and heavy metals. Laykold is also the first acrylic court surfacing brand to achieve **Greenguard Gold certification** for indoor air quality. • **Rekortan** supports global sustainability through durable, low-emission running track systems designed for longevity and performance. Manufactured using advanced polyurethane technologies, Rekortan surfaces are developed with **recycled rubber content**, UV-stabilized materials, and environmentally conscious production methods to reduce resource consumption. Collectively, our brands provide public agencies with innovative, high-performance surfaces that support environmental goals, reduce maintenance demands, and contribute to long-term sustainability. Through product design, responsible sourcing, and reclamation partnerships, we are helping clients build a greener future—one surface at a time.
4. PRICING	
4.1. Cost Proposal	
4.1.1. ***Pricing Model.*** Provide a description of your pricing model or methodology identifying how the model works for the products and services included in your proposal. Your response should describe how the proposed pricing model is able to be audited by an Equalis Group member to assure compliance with the pricing in the Master Agreement.	Please See: Attachment B – Cost Proposal – AstroTurf Corporation – Section 4.1.1 AstroTurf, Rekortan, Laykold, SYNLawn. Line Item pricing is provided with a 6% discount.
4.1.2. ***Auditable.*** Describe how the proposed pricing model is able to be audited by public sector agencies or CCOG to assure compliance with pricing in the Master Agreement.	The proposed pricing model is fully transparent, standardized, and designed to be easily auditable by public sector agencies and the Cooperative Council of Governments (CCOG) to ensure compliance with the Master Agreement. The attached pricing workbook outlines clearly labeled, not-to-exceed pricing across all four brands—**AstroTurf**, **SYNLawn**, **Laykold**, and **Rekortan**—as well as installation services. Each pricing sheet includes: • **Manufacturer Item Numbers and Descriptions** • **Unit of Measure and Manufacturer List Prices** • **Published Sourcewell/Equalis Discount Percentages** • **Net Price to Member** This structure enables quick verification of pricing at the product and service level. Because all prices are presented in a "not-to-exceed" format and include clear discount structures, agencies can easily audit and compare proposals or invoices against the published schedule. Additionally, the workbook ensures

	consistency in pricing calculations and supports compliance monitoring by including discount transparency and line-item detail. The uniform format across brands ensures reliable and auditable records for any public agency seeking to validate purchases through the Equalis Group Master Agreement.
4.1.3. ***Cost Proposal Value.*** Which of the following statements best describes the pricing offered included in Respondent's cost proposal.	The prices offered in your Cost Proposal are: ☐ lower than what you offer other group purchasing organizations, cooperative purchasing organizations, or state purchasing departments. ☒ equal to what you offer other group purchasing organizations, cooperative purchasing organizations, or state purchasing departments. ☐ higher than what you offer other group purchasing organizations, cooperative purchasing organizations, or state purchasing departments. ☐ not applicable. Please explain below. Click or tap here to enter text.
4.1.4. ***Cost of Shipping.*** Is the cost of shipping included in the pricing submitted with your response? If no, describe how freight, shipping, and delivery costs are calculated.	Shipping costs are included in our customer proposals. Shipping to Alaska or Hawaii are subject to higher pricing as indicted on the cost proposal.
4.1.5. ***Pricing Open Market or Sourced Goods.*** If relevant, propose a method for the pricing of Open Market Items or Sourced Goods. **NOTE**: For a definition of Open Market Items, please refer to **Part One, Section 5.4 – Other Pricing Scenarios**.	AstroTurf Corporation will provide "Open Market Items" or "Sourced Good" on a project-by-project basis as all scopes are different. AstroTurf would provide this as a line up on the proposal.
4.1.6. ***Total Cost of Acquisition.*** Identify any components from the total cost of acquisition that are ***NOT*** included in the Cost Proposal. This would include all additional charges that are not directly identified as freight or shipping. For example, permitting, installation, set up, mandatory training, site work, or initial inspection	N/A

may be required but not initially considered in the Cost Proposal. Identify any parties that impose such costs and their relationship to the Respondent.	

5. GO-TO-MARKET STRATEGY

5.1. Respondent Organizational Structure & Staffing of Relationship

5.1.1. ***Key Contacts.*** Provide contact information and resumes for the person(s) who will be responsible for the following areas;

1. Executive Contact
2. Contract Manager
3. Sales Leader
4. Reporting Contact
5. Marketing Contact.

***Indicate who the primary contact will be if it is not the Sales Leader.

Kim Summers (Primary Contact)
National Director of Cooperative Purchasing



2680 Abutment Road
Dalton, GA 30721
Mobile: 706.264.1314
Email: kim.summers@astroturf.com
www.astroturf.com

Description of role:
Kim Summers is the National Director of Cooperative Purchasing for the Americas and has over 25 years in the industry. Kim is responsible for creating and implementing training programs for our in-house sales team and distributor network, ensuring they are fully equipped to understand and leverage cooperative purchasing strategies. These trainings focus on contract education, value messaging, compliance, and how to effectively guide clients through the procurement process using cooperative contracts.
In addition to training, I am responsible for growing strategic partnerships with national and regional purchasing cooperatives. This includes identifying new opportunities, maintaining active relationships with existing partners, and aligning our internal processes to meet the requirements of each cooperative. My goal is to streamline purchasing for our clients—particularly schools, municipalities, and public agencies—by offering efficient, compliant, and cost-effective procurement pathways. This not only supports our sales growth but also strengthens our reputation as a trusted partner in the public purchasing space.

Rhonda Horton
Cooperative Purchasing Customer Relations



2680 Abutment Road

	Dalton, GA 30721 Mobile: 706.980.7833 Email: Rhonda.horton@astroturf.com www.astroturf.com Rhonda Horton is Cooperative Purchasing Customer Relations for the Americas and has over 10 years in the industry. Rhonda's role focuses on tracking and documenting all projects procured through cooperative contracts. This ensures accurate reporting to both internal stakeholders and cooperative partners and helps validate the use of the contract in accordance with public procurement laws. This ensures that all sales and project execution align with the terms, pricing, and scope of the awarded cooperative contracts. This includes verifying eligibility, documenting the procurement path, and maintaining audit-ready records. Rhonda also guides customers through the cooperative purchasing process, explaining their options, and addressing questions related to procurement, documentation, or contract use. It also involves ongoing communication to ensure project satisfaction and long-term partnership success **Executive Team:** Robb Carey – CEO Philip Snider – COO Rob Mitchel – VP Business Development Thomas Green – VP Operations Gary Jones – Director of Marketing Kim Summers – National Director of Cooperative Purchasing
5.1.2. ***Sales Organization.*** Provide a description of your sales organization, including key staff members, the size of the organization, in-house vs. third-party sales resources, geographic territories, vertical market segmentation, etc.	With over 350 employees consisting of manufacturing, estimators, project managers, installers and sales. AstroTurf currently has 25 installation crews, 8 maintenance crews, 10 track crews, and 6 civil crews. This does not include our distributor/partner network. AstroTurf maintains a knowledgeable and dedicated team of sales professionals to assist clients with their sports field projects. The company provides a "Find Your Rep" feature on their website, enabling clients to locate and contact their regional sales representatives directly. **AstroTurf Direct Sales**

Sales	State(s) Covered	Brand	Phone
Joey Alexander	Alabama	AstroTurf	336.240.3306
Gregg Swenson	Alaska	AstroTurf	509.432.5216
Jeff Raiger	Arizona	AstroTurf	760.443.3888
Curtis Wilson	Arkansas	AstroTurf	469.984.5927
Dominick Berarducci	California (Northern)	AstroTurf	559.612.9065
Pat Cassa	California (Southern)	AstroTurf	714.318.0763
Jeff Raiger	Colorado	AstroTurf	760.443.3888
Joe Gaeta	Connecticut	AstroTurf	412.443.1774
Tom Carroll	Delaware	AstroTurf	610.841.5299
Wes Allen	Florida	AstroTurf	407.463.7813
Joey Alexander	Georgia	AstroTurf	336.240.3306
Jeff Raiger	Hawaii	AstroTurf	760.443.3888
Gregg Swenson	Idaho	AstroTurf	509.432.5216
Kevin Christman	Indiana	AstroTurf	415.530.6412
Joe Gaeta	Iowa	AstroTurf	412.443.1774
Joe Gaeta	Kansas	AstroTurf	412.443.1774
Garrett Bare	Kentucky	AstroTurf	336.468.7239
Joey Alexander	Louisiana	AstroTurf	336.240.3306
Joe Gaeta	Maine	AstroTurf	412.443.1774
Jay Crider	Maryland	AstroTurf	443.955.9081
Joe Gaeta	Massachusetts	AstroTurf	412.443.1774
Curtis Wilson	Missouri	AstroTurf	469.984.5927
Gregg Swenson	Montana	AstroTurf	509.432.5216
Joe Gaeta	Nebraska	AstroTurf	412.443.1774
Jeff Raiger	Nevada	AstroTurf	760.443.3888
Joe Gaeta	New Hampshire	AstroTurf	412.443.1774
Tom Carroll	New Jersey	AstroTurf	610.841.5299
Jeff Raiger	New Mexico	AstroTurf	760.443.3888
Joe Gaeta	New York (Eastern)	AstroTurf	412.443.1774
Chris Siegle	New York (Western)	AstroTurf	412.973.8024
Anthony Meley	North Carolina (Eastern)	AstroTurf	336.451.7047
Garrett Bare	North Carolina (Western)	AstroTurf	336.468.7239
Joe Gaeta	North Dakota	AstroTurf	412.443.1774
Dan Isaac	Ohio	AstroTurf	440.840.8220
Curtis Wilson	Oklahoma	AstroTurf	469.984.5927
Gregg Swenson	Oregon	AstroTurf	509.432.5216
Tom Carroll	Pennsylvania (Eastern)	AstroTurf	610.841.5299
Chris Siegle	Pennsylvania (Western)	AstroTurf	412.973.8024
Joe Gaeta	Rhode Island	AstroTurf	412.443.1774
Drew Shoaf	South Carolina	AstroTurf	336.596.3233
Joe Gaeta	South Dakota	AstroTurf	412.443.1774
Garrett Bare	Tennessee	AstroTurf	336.468.7239
Curtis Wilson	Texas	AstroTurf	469.984.5927
Jeff Raiger	Utah	AstroTurf	760.443.3888
Joe Gaeta	Vermont	AstroTurf	412.443.1774
Anthony Meley	Virginia (Eastern)	AstroTurf	336.451.7047
Garrett Bare	Virginia (Southwestern)	AstroTurf	336.468.7239
Gregg Swenson	Washington	AstroTurf	509.432.5216
Dan Isaac	West Virginia	AstroTurf	440.840.8220
Jeff Raiger	Wyoming	AstroTurf	760.443.3888

AstroTurf Distributor Network

AstroTurf Distributors

Distributor / Partner	State(s) Covered	Contact-LEADS
Asphalt, Fabric & Engineering (AFE)	Southern California	Lori Probert
AstroTurf Great Lakes	Wisconsin	Todd DeWolfe
AstroTurf Great Lakes	Michigan	Todd DeWolfe
AstroTurf West	British Columbia, Alberta	Martin Wright
Atlantic Sports Group	Connecticut	Scott Koesterich
Atlantic Sports Group	New Hampshire	Scott Koesterich
Atlantic Sports Group	Maine	Scott Koesterich
Atlantic Sports Group	Rhode Island	Scott Koesterich
Atlantic Sports Group	Vermont	Scott Koesterich
Centaur Products, Inc.	Ontario	Karim Fakim
Centaur Products, Inc.	New Foundland and Labrador	Karim Fakim
Centaur Products, Inc.	Nova Scotia	Karim Fakim
Centaur Products, Inc.	New Brunswick	Karim Fakim
Centaur Products, Inc.	Prince Edward Island	Karim Fakim
Coast to Coast	Washington, Oregon, Idaho	Steve Webb
GA Sports dba. General Acrylics	Arizona	Jonnie Deremo
Mid-America Sports	Iowa	Kirk Grego
Mid-America Sports	Kansas	Kirk Grego
Mid-America Sports	Missouri	Kirk Grego
Mid-America Sports	Nebraska	Kirk Grego
Mid-America Sports	North Dakota	Kirk Grego
Mid-America Sports	South Dakota	Kirk Grego
Rocky Mountain Turf Solutions	New Mexico	Dave Lange
Rocky Mountain Turf Solutions	Colorado	Dave Lange
Rocky Mountain Turf Solutions	Utah	Dave Lange
Rocky Mountain Turf Solutions	Wyoming	Dave Lange
Rocky Mountain Turf Solutions	Montana	Dave Lange
Sports Turf Company, Inc.	Alabama	Todd Wiggins
Sports Turf Company, Inc.	Georgia	Todd Wiggins
Symmetry Sports Construction	Texas	Jason Bell
SYNLawn Montreal	Quebec	Marc Don
T3 Global Projects, LLC	Louisiana	Roberto Sanchez
T3 Global Projects, LLC	Mississippi	Roberto Sanchez
T3 Global Projects, LLC	Carribean Island Region	Roberto Sanchez
United Turf & Track	Oklahoma	Dillon Ripley
United Turf & Track	Arkansas	Dillon Ripley

Laykold Direct Sales

Sales	State(s) Covered	Brand	Phone
Paul Brown	National Coverage	Laykold	315.247.7498

Laykold Partner Network

Laykold Partners

Distributor / Partner	State(s) Covered	Contact-LEADS
Altitude Athletic Surfaces	Colorado	Kevin Leach
Competion Athletic Surfaces	Tennessee	Lee Murray
Competion Athletic Surfaces	Georgia	Lee Murray
H2I Group	North Carolina	Danny Macdonald
Hinding Tennis	Connecticut	Tom Hinding
Kentucky Sports Construction	Kentucky	Rich Benson
Laurel Tennis & Sports Inc.	New York	Justin Kwasnik
Leslie Coatings	Indiana	Matt Strom
Mathusek, Inc.	New Jersey	Jeff Mathusek
Nickolaus Construction	New Jersey	Steve Nickolaus
Premier Surface Solutions	Florida	Rodney Reams
ProSurfaces	Michigan	Jared Coffelt
Racquet Sports, Inc.	Michigan	Neil Evans
Resurface Inc.	Virginia	Jeff Zingo
Shore Top Construction Corp / Sports & Tennis Construction, LLC	New Jersey	Brittany Radovanovic
Shore Top Construction Corp / Sports & Tennis Construction, LLC	New York	Brittany Radovanovic
Shore Top Construction Corp / Sports & Tennis Construction, LLC	Connecticut	Brittany Radovanovic
Talbot Tennis	Georgia	Mike McGrath
Talbot Tennis	South Carolina	Mike McGrath
The CourtSmiths	Ohio	Mike Smith
Top A Court Tennis Company	Pennsylvania	John Coll
Trans Texas Tennis	Texas	Steve Wright
Upper Midwest Athletic Courts	Minnesota	Eric Hicks
TC Global Projects, LLC		
CH Courts Tech	California	Collin Hardick
Alcar Tennis Court Construction, LLC	New Jersey	Dave Pierson

Rekortan Direct Sales

Sales	State(s) Covered	Brand	Phone
Bob Aurich	Colorado	Rekortan	512.940.8828
Mason Watkins	Connecticut	Rekortan	315.920.0736
Reggie Kohn	Florida	Rekortan	407.733.7400
Bob Aurich	Idaho	Rekortan	512.940.8828
Mason Watkins	Maine	Rekortan	315.920.0736
Mason Watkins	Massachusetts	Rekortan	315.920.0736
Bob Aurich	Montana	Rekortan	512.940.8828
Mason Watkins	New Hampshire	Rekortan	315.920.0736
Bob Aurich	New Mexico	Rekortan	512.940.8828
Mason Watkins	New York	Rekortan	315.920.0736
Drew Shoaf	North Carolina	Rekortan	336.596.3233
Gary Carr	Northern California	Rekortan	208.720.7266
Keith Kernic	Ohio	Rekortan	724.622.1118
Keith Kernic	Pennsylvania	Rekortan	724.622.1118
Mason Watkins	Rhode Island	Rekortan	315.920.0736
Drew Shoaf	South Carolina	Rekortan	336.596.3233
Drew Shoaf	Tennessee	Rekortan	336.596.3233
Bob Aurich	Utah	Rekortan	512.940.8828
Mason Watkins	Vermont	Rekortan	315.920.0736
Drew Shoaf	Virginia	Rekortan	336.596.3233
Keith Kernic	West Virginia	Rekortan	724.622.1118

Rekortan Partner Network

Rekortan Partners

Distributor / Partner	State(s) Covered	Contact-LEADS
AG Sports	Michigan	Connoer Golas
AG Sports	Ohio	Connoer Golas
AG Sports	Indiana	Connoer Golas
ATT Sports	New Jersey	Tony Cunningham
ATT Sports	Pennsylvania	Tony Cunningham
ATT Sports	Maryland	Tony Cunningham
ATT Sports	DC	Tony Cunningham
Byrne & Jones	Missouri	Jameson Sheley
Byrne & Jones	Illinois	Jameson Sheley
Byrne & Jones	Indiana	Jameson Sheley
Byrne & Jones	Kentucky	Jameson Sheley
Byrne & Jones	Ohio	Jameson Sheley
Carter Construction	Texas	
Carter Construction	Oklahoma	
Carter Construction	Arkansas	
Coast to Coast	Washington	Steve Webb
Coast to Coast	Oregon	Steve Webb
Coast to Coast	Idaho	Steve Webb
GA Sports dba. General Acrylics	Arizona	Mike Wickham
Marathon Surfaces	BC	Lisa Atkinson
Marathon Surfaces	Alberta	Lisa Atkinson
Sports Turf Company, Inc.	Alabama	Todd Wiggins
Sports Turf Company, Inc.	Georgia	Todd Wiggins
Sports Turf Company, Inc.	Mississippi	Todd Wiggins
Symmetry Sports Construction	Texas	Kelly Clark
T3 Global Projects, LLC	Louisiana	Roberto Sanchez
T3 Global Projects, LLC	Mississippi	Roberto Sanchez
Track Doctor		
Upper Midwest Athletic Courts	Minnesota	Eric Hicks

SYNLawn Distributor Network

SYNLawn Distributors

Distributor / Partner	State(s) Covered	Contact-LEADS
Accelerated Green Works Inc.	North Dakota	Brett/Jodi Kallias
Advanced Lawncare and Maintenance	El Paso (Texas)	Kevin Bray
AFE - Asphalt, Fabric, & Engineering, Inc.	Los Angeles (California)	DOUGLAS E. COULTER
Aztec Flooring (Davidson Interior Enterprises)	Kentucky	Pat (Patricia) Davidson
Bluegrass Design/Build Landscape, Irrigation, & Lighting Inc	Northeast Ohio	Amanda Wilkins
Chesapeake Bay Synthetic Landscapes	Chesapeake Bay (Maryland)	Kaitlyn Lord
Classy Landscaping	Edmonton (Canada)	Elliot St.Martin
Earth Design	Los Angeles - Earth Design (California)	Chris Hayman
Ecology Turf	San Bernardino (California)	Kyle Kohler
Eisler Landscapes, Inc.	Pennsylvania - Western	Brad Hazelwood
Fake Grass Warehouse	Calgary (Canada)	Scott Bergmann
Florida Green Landscaping and Property Maintenance	Jacksonville (Florida)	Matthew Saxton
GOAT Turf	Tennessee	Alexa Kucker
GOAT Turf	Pennsylvania - Eastern	Joanne Seifert
Hapa Landscaping	Oahu (Hawaii)	Brant Brown
New England Turf Store	New England	Scott Koesterich
Northwest Surfacing Specialist - NWSS	San Diego (California)	Jamie Neagle
Northwest Surfacing Specialist - NWSS	Sacramento (California)	Mike Holdenried
Northwest Surfacing Specialists - NWSS	Seattle (Washington)	Mike Holdenried
Paradise Greens	Arizona	Charlie Ferer
Practice Sports / Play, Inc.	Nebraska	Chad Schneider
SMARTLawn	Minnesota	Chris Makoutz
Southeast Turf LLC	South Carolina	Trevor Marks
Southeast Turf LLC	North Carolina	Trevor Marks
Strickly Green	Dallas (Texas)	Wilfredo Delgado
Strickly Green	Central Texas	Terry Stricklin
Strickly Green	Louisiana	Terry Stricklin
Strickly Green Grass	Houston (Texas)	Jeremy Piltzmaker
Strickly Green Grass	Oklahoma	Wilfredo Delgado
Strickly Green Grass	Mississippi	Terry Stricklin
SYNLawn Chicago	Chicago (Illinois)	Darren Flynn
SYNLawn Great Lakes	Wisconsin	Justin Booth
SYNLawn Maui	Maui (Hawaii)	Holly Ferguson
SYNLawn Michigan	Michigan	Justin Booth
SYNLawn Montreal	Montreal (Canada)	Marc Don
SYNLawn Mountain West - Montana	Montana	Joe Makoutz
SYNLawn Mountain West: South Dakota	South Dakota	Joe Makoutz
SYNLawn Mountain West: Wyoming	Wyoming	Joe Makoutz
SYNLawn New Jersey	New Jersey	Anastasia Phillips
SYNLawn New York	New York	Anastasia Phillips
SYNLawn of C CA	Central California	Matt Price
SYNLawn of Florida LLC	Utah	Michael Hettleman
SYNLawn of Georgia	Georgia, Alabama	Cullen Elam
SYNLawn of Las Vegas	Las Vegas (Nevada)	Ken Jackson
SYNLawn of Ohio Valley	Ohio Valley (Ohio)	Jeff Hollenbach
SYNLawn of Oregon	Oregon	Tammy Kirwan
SYNLawn Okanagan	Kelowna, Okanagan (Canada)	Chris Tietze
SYNLawn Saskatchewan	Saskatchewan (Canada)	David Herbison
SYNLawn Tampa/ SYNLawn Orlando	Tampa/Orlando (Florida)	David Sheffer
SYNLawn Toronto	Toronto (Canada)	John Larsen
SYNLawn Utah	Utah	JD Doyle
SYNLawn Vancouver	Vancouver (Canada)	Matt Chatwell
SYNLawn Vancouver Island	Vancouver Island (Canada)	Kris Mickelson
Synscapes of Idaho, LLC	Idaho	Eric Pierce
SYNScapes of Indiana	Indiana	Patrick Phillips
Tim's Landscaping	West Virgina	Tim Clemmer
Total Instant Lawns Ltd	Ottawa (Canada)	Lucas Kwiatkowski
Turf Etc	St. Louis (Missouri)	Angela Grego
Turf Etc LLC	Kansas City (Missouri)	Angela Grego
Turf Guys Miami	Miami (Florida)	Jorge Sanz
TurfScapes of Colorado	Colorado	Nick Perea
TURFScapes of New Mexico	New Mexico	Chris Baca
Westside Pro Landscape	Upstate Rochester (New York)	Brad White

5.2. Contract Implementation Strategy & Expectations

5.2.1. ***Contract Expectations.*** What is your company's strategy to increase market share in the public sector while leveraging an Equalis Group Master Agreement?

Our strategy to expand market share in the public sector centers on leveraging the strength, brand recognition, and proven performance of our four flagship brands—**AstroTurf**, **SYNLawn**, **Laykold**, and **Rekortan**—all proudly part of **Sport Group**, the global leader in sports surfacing. Each brand brings a distinct, trusted solution to the table:

- **AstroTurf**, the inventor of synthetic turf, has over 60 years of innovation in athletics and continues to lead in performance and safety across football, soccer, baseball, and multi-sport fields.
- **SYNLawn**, with over 20 years of experience, is the #1 provider of bio-based, environmentally responsible artificial grass for landscape, playground, pet, and commercial applications.
- **Laykold** is a world-class court system known for its performance and durability and is the official surface of the US Open. Laykold has become the go-to for tennis and pickleball courts at the professional and municipal levels.
- **Rekortan** has been a global leader in track surfacing for over 50 years, trusted for its speed, resilience, and safety by institutions from high schools to Olympic stadiums.

Leveraging the Equalis Group Master Agreement, we aim to simplify the procurement process for public agencies by providing:

- **Pre-negotiated pricing and terms**, eliminating the need for time-consuming RFP processes.
- **Turnkey solutions**, including design, manufacturing, and installation, supported by in-house project management teams and certified installers.
- **Comprehensive cooperative support**, including custom marketing, outreach to Equalis members, and dedicated account management to drive contract adoption.

We will also expand visibility and adoption through:

- **Collaborative marketing campaigns** with Equalis Group
- **Targeted outreach to municipalities, school districts, universities, and parks departments**
- **Showcase projects** and case studies that demonstrate our quality, sustainability, and ROI
- **Educational seminars and product demos** to inform and engage public decision-makers

By partnering with Equalis Group, we align best-in-class products with streamlined procurement to deliver exceptional value, quality, and support to the public sector—ultimately making it easier and more efficient for members to achieve their project goals with confidence.

5.2.2.	***Five (5) Year Sales Vision & Strategy.*** Describe your company's vision and strategy to leverage a resulting contract with Equalis over the next five (5) years. Your response may include but is not limited to; the geographic or public sector vertical markets being targeted; your strategy for acquiring new business and retaining existing business; how the contract will be deployed with your sales team; how you will market the contract, including deployment of the contract on your company website; and the time frames in which this will be completed.	Our five-year vision is to establish AstroTurf, SYNLawn, Laykold, and Rekortan as the public sector's most trusted brands for synthetic turf, landscaping, court surfacing, and running track solutions—using the Equalis Group Master Agreement as a strategic catalyst for growth. **Vision Highlights:** • Deliver **unmatched value** and **ease of procurement** to public agencies nationwide. • Expand our presence in **K-12, higher education, municipal, and parks & recreation sectors**. • Position our solutions as the **sustainable, cost-effective, and performance-driven standard** for public infrastructure projects. **Strategic Pillars Over the Next 5 Years:** 1. **Contract Integration & Awareness** o Incorporate the Equalis contract into all public sector proposals. o Collaborate with Equalis on **co-branded marketing**, outreach campaigns, and trade show representation. o Educate public buyers on the **benefits of cooperative purchasing** and how Equalis streamlines the process. 2. **Market Penetration & Member Engagement** o Proactively target Equalis members through dedicated account managers and outreach programs. o Host **lunch-and-learns**, **virtual demos**, and **on-site presentations** tailored to agency-specific needs. o Highlight completed public sector projects to demonstrate success and build trust. 3. **Data-Driven Growth** o Track performance by agency type, geography, and product line to identify high-growth opportunities. o Use sales analytics and pipeline reports to refine outreach and capture new markets. 4. **Innovation & Product Expansion** o Introduce new technologies and environmentally conscious innovations—like SYNLawn's USDA-certified bio-based products and AstroTurf's RootZone 3D systems—under the Equalis contract. o Stay ahead of industry trends and agency demands to keep Equalis members at the forefront of surfacing solutions. 5. **Operational Excellence & Reporting** o Maintain **transparent, timely quarterly reporting** and compliance with all Equalis requirements. o Use member feedback and reporting insights to continuously enhance customer experience. By combining our **industry-leading brands** with the **efficiency of the Equalis cooperative purchasing model**, our goal is to grow sales exponentially, strengthen public agency partnerships, and make high-performance, sustainable surfacing more accessible and affordable across the country
5.2.3.	***Sales Objectives.*** What are your top line sales objectives	Our five-year sales objectives under the Equalis Group Master Agreement are focused on strategic, sustainable growth across the public sector for all four of

in each of the five (5) years if awarded this contract?	our industry-leading brands—**AstroTurf**, **SYNLawn**, **Laykold**, and **Rekortan**. We aim to leverage the contract's cooperative purchasing structure to make high-performance surfaces more accessible to public agencies while delivering unmatched value, quality, and service. **Year 1: Foundation & Awareness** • Objective: Establish a strong foundation by onboarding key Equalis members across K-12, higher education, municipalities, and parks. • Target: $5 million in cooperative contract sales. • Key Activities: Awareness campaigns, member training, strategic demos, and regional presentations. **Year 2: Market Expansion** • Objective: Expand geographic reach and increase project volume across all verticals. • Target: $10 million in sales. • Key Activities: Targeted outreach, case study-driven marketing, and expanding field rep support aligned with Equalis opportunities. **Year 3: Deepened Engagement & Retention** • Objective: Grow repeat business and multi-year contracts by building long-term relationships with Equalis members. • Target: $15 million in sales. • Key Activities: Showcase success stories, enhance member education, and implement client retention initiatives. **Year 4: Innovation & New Market Capture** • Objective: Introduce innovative solutions (e.g., new turf technologies, climate-resilient systems, bio-based products) to drive adoption. • Target: $20 million in sales. • Key Activities: Launch new product lines, host sustainability workshops, and capture emerging markets like public health/wellness spaces. **Year 5: Leadership & Brand Dominance** • Objective: Solidify our brands as the leading choice for public sector surfacing nationwide. • Target: $25 million in annual sales. • Key Activities: National-level promotional efforts, expanded financing options, and additional contract integrations. By aligning our sales strategy with the strengths of the Equalis Group cooperative model, we are confident in delivering continued growth while serving the diverse needs of public sector clients with premium, sustainable surface solutions.

6. Admin Fee & Reporting

6.1. ***Administration Fee & Reporting***

6.1.1. ***Administrative Fee.*** Equalis Group only generates revenue when the Winning Supplier generates revenue based on contract utilization by current and future Members. The administrative fee is normally calculated as a percentage of the total Spend for agencies accessing product and services through the Master Agreement and is typically between two percent (2%) to three percent (3%). In some categories, a flat fee or another fee structure may be acceptable. **Please provide your proposed Administrative Fee percentage or structure.** **NOTE**: The proposed Administrative Fee language for this contract is based on the terms disclosed in the **Attachment A – Model Administration Agreement**.	[redacted]
6.1.2. ***Sales & Administrative Fee Reporting.*** Equalis Group requires monthly reports detailing sales invoiced the prior month and associated Administrative Fees earned by the 15th of each month. Confirm that your company will meet this reporting requirement. If not, explain why and propose an alternative time schedule for providing these reports to Equalis Group.	AstroTurf Corporation's dedicated accounting team is well-versed in the reporting requirements of cooperative purchasing agreements. With a legacy spanning over 60 years, AstroTurf has consistently demonstrated its commitment to excellence and reliability in the synthetic turf industry. As a proud member of the Sport Group, a global leader in sports surfacing with installations in over 70 countries, AstroTurf has the capability to produce a variety of detailed reports, including but not limited to: • Client lists segmented by private and federal entities • National and regional sales analyses • Sales breakdowns by agency type (co-op, city, state, school district, etc.)

	• Quarterly and annual sales reports categorized by region, state, and product type • Outstanding billings • Subcontractor reports and billings • Activity and pipeline reports detailing upcoming projects In summary, AstroTurf possesses the infrastructure and expertise to generate all necessary reports as required. We propose submitting reports on a quarterly basis, aligning with our established reporting schedule to ensure accuracy and timeliness. For any report requests, questions, or comments, please contact Kim Summers, Director of Cooperative Purchasing, at 706.264.1314 or kim.summers@astroturf.com ** Please see attached sample reporting Report
6.1.3. ***Contract Utilization Tracking.*** Define the specific, step-by-step process for your sales and/or quote generation team to tie a quote, proposal, invoice, and/or purchase order to the Equalis cooperative contract in your Customer Relationship Management ("**CRM**"), sales system, or Enterprise Resource Planning ("**ERP**") system. Include any individuals and/or teams involved in this process.	Our team follows a defined, transparent, and auditable process for tracking all quotes, proposals, purchase orders, and invoices tied to the Equalis Group Master Agreement. This process is supported by our CRM/ERP systems, the Wrike project management platform, and our internal reporting protocols as shown in the attached reporting spreadsheet. **Step-by-Step Contract Utilization Tracking Process:** 1. **Opportunity Identification** o Sales representatives confirm that a client is an Equalis Group Member or eligible public agency at the outset of the engagement. o The Equalis contract is selected as the procurement vehicle in the CRM system, flagged using an internal project code and contract tag (e.g., "Equalis2025"). 2. **Quote and Proposal Generation** o Quotes are prepared using standardized pricing from the approved Sourcewell/Equalis pricing workbook (uploaded separately). o Each quote includes a reference to the Equalis contract number and cooperative language to ensure traceability. o Quotes are reviewed and approved internally before submission via Wrike. 3. **Purchase Order Matching** o When the client issues a PO, it is cross-referenced with the original quote and entered into Wrike under the designated Equalis folder. o Project managers and administrators ensure the PO contains the Equalis reference before processing. 4. **Project and Invoice Tracking** o Projects are tracked through Wrike, which integrates task assignments, financial milestones, and billing cycles. o Invoices are generated directly from the ERP system, linked to the original quote and PO, and stored within Wrike for transparency and audit access.

	5. **Quarterly Reporting** o Data is compiled from ERP and Wrike systems and entered into our Equalis-specific reporting template, similar to the format shown in the attached **Sourcewell Reporting.xlsx**. o Reports include line-item detail: agency name, product or service provided, date, contract reference, and invoiced amount. o A [redacted] administrative fee is calculated and reported accordingly. 6. **Roles and Responsibilities** o **Sales Team**: Identifies eligible clients, generates quotes. o **Project Administrators**: Ensure contract references are applied to all documents and entered in Wrike. o **Finance Team**: Reconciles invoicing and prepares quarterly contract utilization reports. o **Cooperative Administrator**: Oversees compliance, report submission, and Equalis coordination. This process ensures accurate tracking of every Equalis-related transaction, full auditability, and consistent compliance with all reporting obligations under the Master Agreement.
6.1.4. ***Self-Audit.*** Describe any self-audit process or program that you plan to employ to verify compliance with your proposed contract with Equalis Group. This process includes ensuring that your sales organization provides, and Members obtain the correct pricing, reports reflect all sales made under the Contract, and Winning Supplier remit the proper admin fee to Equalis.	We implement a structured and recurring **self-audit program** across all four of our brands—**AstroTurf**, **SYNLawn**, **Laykold**, and **Rekortan**. This program is designed to validate that the correct pricing is being applied to Member purchases, sales are accurately reported, and the proper administrative fee is remitted to Equalis. **Key Elements of Our Self-Audit Program:** 1. **Quarterly Contract Review** o At the close of each quarter, our **Cooperative Contracts Administrator** conducts a thorough review of all projects coded under Equalis in our CRM/ERP systems. o This includes cross-checking quotes, purchase orders, and invoices to ensure the **approved Equalis pricing schedules** were applied correctly. 2. **Report Validation** o Using the Equalis reporting workbook, our **finance and sales operations teams** reconcile internal records with project data in Wrike and ERP systems.

- This ensures that **all sales under the contract are captured** in the quarterly report and that data is complete, consistent, and formatted for audit readiness.

3. **Administrative Fee Accuracy**
    - The [redacted] administrative fee is system-calculated based on invoiced totals, and cross-verified during each reporting cycle.
    - Discrepancies, if any, are investigated and corrected before the final report and fee are submitted to Equalis.
4. **Internal Spot Audits**
    - On a semi-annual basis, random Equalis-coded projects are selected for a **spot audit** conducted by a senior member of the compliance team.
    - This audit includes a documentation review (quote, PO, invoice, contract reference) to ensure **contract adherence at every touchpoint**.
5. **Team Training and Communication**
    - Sales and project management teams across all brands are regularly trained on Equalis contract terms, pricing usage, and tracking protocols.
    - Updates to pricing files or contract language are communicated immediately and documented within Wrike.

By embedding compliance checks into our workflow and assigning clear ownership across departments, our self-audit program ensures **transparency, accountability, and contract integrity**. This process protects Equalis Group Members, ensures trust in cooperative procurement, and reinforces our long-term commitment as a preferred supplier.

PROPOSAL FORM 2: COST PROPOSAL

A template for the Cost Proposal has been included as **Attachment B** and must be uploaded as a separate attachment to a Respondent's proposal submission. Respondents are permitted to revise any part of the spreadsheet to the Cost Proposal to accurately reflect the column titles, details, discounts, pricing categories of products, services, and solutions being offered to Equalis Group Members.

Respondent's Cost Proposal must include the information requested in **Section 5 – Cost Proposal & Pricing**.

NOTE: Cost Proposals will remain sealed and will only be opened and reviewed for those Respondents that meet the minimum Technical Proposal score threshold as described in **Section 6.2 - Evaluation and Scoring of Proposals**.

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PROPOSAL FORM 3: DIVERSITY VENDOR CERTIFICATION PARTICIPATION

Diversity Vendor Certification Participation - It is the policy of some Members participating in Equalis Group to involve minority and women business enterprises (M/WBE), small and/or disadvantaged business enterprises, disable veterans' business enterprises, historically utilized businesses (HUB) and other diversity recognized businesses in the purchase of goods and services. Respondents shall indicate below whether or not they hold certification in any of the classified areas and include proof of such certification with their response.

a. **Minority Women Business Enterprise**
   Respondent certifies that this firm is an MWBE: ☐Yes ☒No
   List certifying agency: Click or tap here to enter text.

b. **Small Business Enterprise (SBE) or Disadvantaged Business Enterprise ("DBE")**
   Respondent certifies that this firm is a SBE or DBE: ☐Yes ☒No
   List certifying agency: Click or tap here to enter text.

c. **Disabled Veterans Business Enterprise (DVBE)**
   Respondent certifies that this firm is an DVBE: ☐Yes ☒No
   List certifying agency: Click or tap here to enter text.

d. **Historically Underutilized Businesses (HUB)**
   Respondent certifies that this firm is an HUB: ☐Yes ☒No
   List certifying agency: Click or tap here to enter text.

e. **Historically Underutilized Business Zone Enterprise (HUBZone)**
   Respondent certifies that this firm is an HUBZone: ☐Yes ☒No
   List certifying agency: Click or tap here to enter text.

f. **Other**
   Respondent certifies that this firm is a recognized diversity certificate holder: ☐Yes ☒No
   List certifying agency: Click or tap here to enter text.

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PROPOSAL FORM 4: CERTIFICATIONS AND LICENSES

Provide a copy of all current licenses, registrations and certifications issued by federal, state and local agencies, and any other licenses, registrations or certifications from any other governmental entity with jurisdiction, allowing Respondent to provide the products and services included in their proposal which can include, but not limited to licenses, registrations or certifications. M/WBE, HUB, DVBE, small and disadvantaged business certifications and other diverse business certifications, as well as manufacturer certifications for sales and service must be included if applicable

Please also list and include copies of any certificates you hold that would show value for your response not already included above.

State	Business Name	License Number
Arizona	Astroturf Corporation	ROC 320702
Arizona	Astroturf Corporation	ROC 348138
California	Astroturf Corporation	1036156
Florida	APT ACQUISITION CONSTRUCTION CORP., DBA AstroTurf Corporation	CGC1529096
Idaho	Astroturf Corporation	RCE-47036
Louisiana	Astroturf Construction Corporation	69471
Montana	Astroturf Corporation	240369
Nebraska	AstroTurf Construction Corp	62141
Nevada	Astroturf Construction Corporation	0085813
New Mexico	Astroturf Corporation	392677
North Carolina	Astroturf Corporation	79686
South Carolina	AstroTurf Construction Corp	121632
Tennessee	AstroTurf Construction Corp	72836
Utah	Astroturf Corporation	11025408-5501
Virginia	Astroturf Corporation	2705166376
Washington	Astroturf Corporation	ASTROC*821D3
West Virignia	Astroturf Corporation (DBA APT Acquisition Construction Corp)	WV058082

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PROPOSAL FORM 5: UNRESOLVED FINDINGS FOR RECOVERY

O.R.C. Chapter 9.24 prohibits CCOG from awarding a contract to any entity against whom the Auditor of State has issued a finding for recovery, if such finding for recovery is "unresolved" at the time of award. By submitting a proposal, a Respondent warrants that it is not now, and will not become, subject to an "unresolved" finding for recovery under **O.R.C. Chapter 9.24** prior to the award of any contract arising out of this RFP, without notifying CCOG of such finding. The Proposal Review Team will not evaluate a proposal from any Respondent whose name, or the name of any of the subcontractors proposed by the Respondent, appears on the website of the Auditor of the State of Ohio as having an "unresolved" finding for recovery.

Is your company the subject of any unresolved findings for recoveries?

☐ Yes

☒ No

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PROPOSAL FORM 6: MANDATORY DISCLOSURES

1. *Mandatory Contract Performance Disclosure.*

Disclose whether your company's performance and/or the performance of any of the proposed subcontractor(s) under contracts for the provision of products and services that are the same or similar to those to be provided for the Program which is the subject of this RFP has resulted in any formal claims for breach of those contracts. For purposes of this disclosure, "**formal claims**" means any claims for breach that have been filed as a lawsuit in any court, submitted for arbitration (whether voluntary or involuntary, binding or not), or assigned to mediation. For any such claims disclosed, fully explain the details of those claims, including the allegations regarding all alleged breaches, any written or legal action resulting from those allegations, and the results of any litigation, arbitration, or mediation regarding those claims, including terms of any settlement. While disclosure of any formal claims will not automatically disqualify a Respondent from consideration, at the sole discretion of Equalis Group, such claims and a review of the background details may result in a rejection of a Respondent's proposal. Equalis Group will make this decision based on the Proposal Review Team's determination of the seriousness of the claims, the potential impact that the behavior that led to the claims could have on the Respondent's performance of the work, and the best interests of Members.

Provide statement here. AstroTurf Corporation confirms that, to the best of our knowledge and after a thorough internal review, **neither AstroTurf nor any of its proposed subcontractors** (including authorized distributors and installation partners) have had any **formal claims filed for breach of contract**—whether through litigation, arbitration (voluntary or involuntary), or mediation—arising from the performance of contracts for the provision of products or services that are the same or similar to those proposed under this Program. AstroTurf has a longstanding history of delivering high-quality synthetic turf systems to clients across the United States and internationally, with a reputation for reliability, compliance, and customer satisfaction. While we recognize that challenges may arise in large-scale construction and surfacing projects, we have proactively managed those instances through open communication, responsive customer service, and resolution at the project level—well before any formal dispute process would be required. We understand that Equalis Group prioritizes performance integrity and the protection of its Members' interests. AstroTurf shares that commitment and has systems in place to ensure continued contract compliance, transparency, and successful project delivery. Should any further documentation or clarification be requested, we will provide it promptly.

2. *Mandatory Disclosure of Governmental Investigations.*

Indicate whether your company and/or any of the proposed subcontractor(s) has been the subject of any adverse regulatory or adverse administrative governmental action (federal, state, or local) with respect to your company's performance of services similar to those described in this RFP. If any such instances are disclosed, Respondents must fully explain, in detail, the nature of the governmental action, the allegations that led to the governmental action, and the results of the governmental action including any legal action that was taken against the Respondent by the governmental agency. While disclosure of any governmental action will not automatically disqualify a Respondent from consideration, such governmental action and a review of the background details may result in a rejection of the Respondent's proposal at Group's sole discretion. Equalis Group will make this decision based on the Proposal Review Team's determination of the seriousness of the claims, the potential impact that the behavior that led to the claims could have on the Respondent's performance of the work, and the best interests of Members.

Provide statement here. AstroTurf Corporation confirms that **neither the company nor any of its proposed subcontractors** (including authorized distributors and installation partners) have been the subject of any **adverse regulatory or administrative governmental action**—at the federal, state, or local level—related to the performance of services similar to those described in this RFP. To our knowledge, there have been **no allegations, investigations, findings, or legal actions** taken by any governmental agency that would affect AstroTurf's ability to fulfill its obligations under this contract or impact the interests of Equalis Group Members. Should any questions arise or if additional documentation is needed to verify this statement, we will provide it promptly upon request.

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PROPOSAL FORM 7: DEALER, RESELLER, AND DISTRIBUTOR AUTHORIZATION

CCOG allows Suppliers to authorize dealers, distributors, and resellers to sell the products and services made available through, and consistent with the Terms and Conditions set forth in, the Master Agreement. If Supplier intends to authorize their dealers, distributors, or resellers access to the Master Agreement in the event of a contract award Supplier must provide a list, either in the form of a document or a weblink, to identify those organizations who are being authorized access to the Master Agreement.

Will the Supplier authorize dealers, distributors, resellers access to Master Agreement?

☒ **Yes**

☐ **No**

If yes, how will Supplier disclose which organization(s) will have access to the Master Agreement? This list can be updated from time to time upon CCOG's approval.

Respondent Response: AstroTurf and its sister brands under The Americas follow a structured and transparent process to disclose which organizations are authorized to access and operate under a **master cooperative purchasing agreement**. This ensures compliance, clarity, and control over contract use.

Disclosure of Contract Access – AstroTurf and The Americas Brands

Each brand—**AstroTurf, Laykold, Rekortan, and SYNLawn**—operates under a defined sales structure that includes **dedicated direct sales representatives and approved distributors/partners**. To disclose which entities have access to the cooperative purchasing master agreement, the following process is used:

1. Master Access List Maintained and Provided

A formal **Master Access List** is maintained for each brand. This list includes:

- **AstroTurf**:
  - 15 Direct Sales Representatives
  - 14 Authorized Distributors
- **Laykold**:
  - 3 Direct Sales Representatives
  - 22 Certified Installation Partners
- **Rekortan**:
  - 5 Direct Sales Representatives
  - 12 Partners

-

- **SYNLawn:**
    - 65 Distributors across North America

Each sales rep, distributor, or partner is assigned to a specific geographic region and is exclusively responsible for contract-related activity within their territory.

2. How Access is Disclosed to the Cooperative or Public Entities

AstroTurf will disclose which organizations have access to the master agreement by:

- **Submitting the Master Access List** to the cooperative agency (e.g., Sourcewell, TIPS, BuyBoard) as part of onboarding or contract activation.
- Including a **statement in the master agreement** or addendum that specifies only the listed representatives and distributors are authorized to quote, sell, and perform under the agreement.
- Publishing an updated **"Find Your Rep" directory** on each brand's website, allowing public agencies to verify the appropriate local contact.

3. Control and Accountability

Each authorized user of the contract (rep, distributor, or partner):

- Is trained on contract compliance and pricing protocols
- Operates under a signed agreement with AstroTurf or the respective brand
- Is audited and reviewed regularly for adherence to cooperative terms

Unauthorized use or access is prohibited and enforced contractually.

Summary Statement for Contract Language

"Only the authorized direct sales representatives and approved distributors/partners listed in AstroTurf's Master Access List shall have the right to market, quote, and deliver products or services under this agreement. This list is maintained by the National Director of Cooperative Purchasing and will be made available to the cooperative agency and public entities upon request."

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PROPOSAL FORM 8: MANDATORY SUPPLIER & PROPOSAL CERTIFICATIONS

CCOG may not enter into contracts with any suppliers who have been found to be ineligible for state contracts under specific federal or Ohio statutes or regulations. Companies responding to any CCOG RFP MUST certify that they are NOT ineligible by signing each of the statements below. **Failure to provide proper affirming signature on any of these statements will result in a Respondent's proposal being deemed nonresponsive to this RFP.**

I, Kim Summers, hereby certify and affirm that AstroTurf Corporation, has not been debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in transactions by the Unites States Department of Labor, the United States Department of Health and Human Services, or any other federal department or agency as set forth in 29 CFR Part 98, or 45 CFR Part 76, or other applicable statutes.

AND

I, Kim Summers, hereby certify and affirm that AstroTurf Corporation, is in compliance with all federal, state, and local laws, rules, and regulations, including but not limited to the Occupational Safety and Health Act and the Ohio Bureau of Employment Services and the following:

- Not penalized or debarred from any public contracts or falsified certified payroll records or any other violation of the Fair Labor Standards Act in the last three (3) years;
- Not found to have violated any worker's compensation law within the last three (3) years;
- Not violated any employee discrimination law within the last three (3) years;
- Not have been found to have committed more than one (1) willful or repeated OSHA violation of a safety standard *(as opposed to a record keeping or administrative standard)* in the last three (3) years;
- Not have an Experience Modification Rating of greater than 1.5 (a penalty-rated employer) with respect to the Bureau of Workers' Compensation risk assessment rating; and
- Not have failed to file any required tax returns or failed to pay any required taxes to any governmental entity within the past three (3) years.

AND

I, Kim Summers, hereby certify and affirm that *AstroTurf Corporation*, is not on the list established by the Ohio Secretary of State, pursuant to **ORC Section 121.23**, which identifies persons and businesses with more than one unfair labor practice contempt of court finding against them.

AND

I, Kim Summers, hereby certify and affirm that ***AstroTurf Corporation*** either is not subject to a finding for recovery under **ORC Section 9.24**, or has taken appropriate remedial steps required under that statute to resolve any findings for recovery, or otherwise qualifies under that section to enter into contracts with CCOG.

I, Kim Summers, hereby affirm that this proposal accurately represents the capabilities and qualifications of *AstroTurf Corporation*, and I hereby affirm that the cost(s) proposed to CCOG for the performance of services and/or provision of goods covered in this proposal in response to this CCOG RFP is a firm fixed price structure as described in the Cost Proposal, inclusive of all incidental as well as primary costs. *(Failure to provide the proper affirming signature on this item may result in the disqualification of your proposal.)*

PROPOSAL FORM 9: CLEAN AIR ACT & CLEAN WATER ACT

The Respondent is in compliance with all applicable standards, orders or regulations issued pursuant to the Clean Air Act of 1970, as Amended (42 U.S. C. 1857 (h), Section 508 of the Clean Water Act, as amended (33 U.S.C. 1368), Executive Order 117389 and Environmental Protection Agency Regulation, 40 CFR Part 15 as required under OMB Circular A-102, Attachment O, Paragraph 14 (1) regarding reporting violations to the grantor agency and to the United States Environment Protection Agency Assistant Administrator for the Enforcement.

Authorized signature: 

Printed Name: Kim Summers

Company Name: AstroTurf

Mailing Address: 2680 Abutment Rd. Dalton, Ga 30721

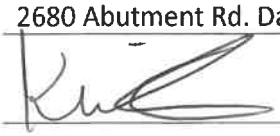
Email Address: Kim.summers@astroturf.com

Job Title: National Director of Cooperative Purchasing

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PROPOSAL FORM 10: DEBARMENT NOTICE

I, the Respondent, certify that my company has not been debarred, suspended or otherwise ineligible for participation in Federal Assistance programs under Executive Order 12549, "Debarment and Suspension", as described in the Federal Register and Rules and Regulations.

Respondents Name:	Kim Summers
Mailing Address:	2680 Abutment Rd. Dalton, Ga 30721
Signature	
Title of Signatory:	National Director of Cooperative Purchasing

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PROPOSAL FORM 11: LOBBYING CERTIFICATIONS

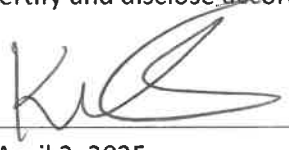
Submission of this certification is a prerequisite for making or entering into this transaction and is imposed by **Section 1352, Title 31, U.S. Code**. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Any person who fails to file the required certification shall be subject to civil penalty of not less than ten thousand dollars ($10,000) and not more than one hundred thousand dollars ($100,000) for each such failure.

The undersigned certifies, to the best of his/her knowledge and belief, on behalf of Respondent that:

1. No Federal appropriated funds have been paid or will be paid on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, the making of a Federal grant, the making of a Federal loan, the entering into a cooperative agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all covered sub-awards exceeding one hundred thousand dollars ($100,000) in Federal funds at all appropriate tiers and that all sub-recipients shall certify and disclose accordingly.

Signature: 

Date: April 2, 2025

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PROPOSAL FORM 12: CONTRACTOR CERTIFICATION REQUIREMENTS

1. *Contractor's Employment Eligibility*

By entering the contract, Contractor warrants compliance with the Federal Immigration and Nationality Act (FINA), and all other federal and state immigration laws and regulations. The Contractor further warrants that it is in compliance with the various state statutes of the states it will operate this contract in.

Participating Government Entities including School Districts may request verification of compliance from any Contractor or subcontractor performing work under this Contract. These Entities reserve the right to confirm compliance in accordance with applicable laws.

Should the Participating Entities suspect or find that the Contractor or any of its subcontractors are not in compliance, they may pursue any and all remedies allowed by law, including, but not limited to: suspension of work, termination of the Contract for default, and suspension and/or debarment of the Contractor. All costs necessary to verify compliance are the responsibility of the Contractor.

The Respondent complies and maintains compliance with the appropriate statutes which requires compliance with federal immigration laws by State employers, State contractors and State subcontractors in accordance with the E-Verify Employee Eligibility Verification Program.

Contractor shall comply with governing board policy of the CCOG Participating entities in which work is being performed.

2. *Fingerprint & Criminal Background Checks*

If required to provide services on school district property at least five (5) times during a month, contractor shall submit a full set of fingerprints to the school district if requested of each person or employee who may provide such service. Alternately, the school district may fingerprint those persons or employees. An exception to this requirement may be made as authorized in Governing Board policy. The district shall conduct a fingerprint check in accordance with the appropriate state and federal laws of all contractors, subcontractors or vendors and their employees for which fingerprints are submitted to the district. Contractor, subcontractors, vendors and their employees shall not provide services on school district properties until authorized by the District.

The Respondent shall comply with fingerprinting requirements in accordance with appropriate statutes in the state in which the work is being performed unless otherwise exempted.

Contractor shall comply with governing board policy in the school district or Participating Entity in which work is being performed.

Signature: 

Date: April 2, 2025

(The rest of this page is intentionally left blank)

PROPOSAL FORM 13: BOYCOTT CERTIFICATION

Respondent must certify that during the term of any Agreement, it does not boycott Israel and will not boycott Israel. "Boycott" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes.

Does Respondent agree? KS
(Initials of Authorized Representative)

(The rest of this page is intentionally left blank)

PROPOSAL FORM 14: FEDERAL FUNDS CERTIFICATION FORMS

When a participating agency seeks to procure goods and services using funds under a federal grant or contract, specific federal laws, regulations, and requirements may apply in addition to those under state law. This includes, but is not limited to, the procurement standards of the Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards, 2 CFR 200 (sometimes referred to as the "Uniform Guidance" or "EDGAR" requirements).

All Respondents submitting proposals must complete this Federal Funds Certification Form regarding Respondent's willingness and ability to comply with certain requirements which may be applicable to specific participating agency purchases using federal grant funds. This completed form will be made available to Members for their use while considering their purchasing options when using federal grant funds. Members may also require Supplier Partners to enter into ancillary agreements, in addition to the contract's general terms and conditions, to address the member's specific contractual needs, including contract requirements for a procurement using federal grants or contracts.

For each of the items below, respondent should certify their agreement and ability to comply, where applicable, by having respondents authorized representative complete and initial the applicable lines after each section and sign the acknowledgment at the end of this form. If a Respondent fails to complete any item in this form, CCOG will consider the Respondent's response to be that they are unable or unwilling to comply. A negative response to any of the items may, if applicable, impact the ability of a participating agency to purchase from the Supplier Partner using federal funds.

1. *Supplier Partner Violation or Breach of Contract Terms*

Contracts for more than the simplified acquisition threshold currently set at one hundred fifty thousand dollars ($150,000), which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 USC 1908, must address administrative, contractual, or legal remedies in instances where Supplier Partners violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

Any contract award will be subject to Terms and Conditions of the Master Agreement, as well as any additional terms and conditions in any purchase order, participating agency ancillary contract, or Member construction contract agreed upon by Supplier Partner and the participating agency which mut be consistent with and protect the participating agency at least to the same extent as the CCOG Terms and Conditions.

The remedies under the contract are in addition to any other remedies that may be available under law or in equity. By submitting a proposal, you agree to these Supplier Partner violation and breach of contract terms.

Does Respondent agree? KS
(Initials of Authorized Representative)

2. *Termination for Cause or Convenience*

When a participating agency expends federal funds, the participating agency reserves the right to immediately terminate any agreement in excess of ten thousand dollars ($10,000) resulting from this procurement process in the event of a breach or default of the agreement by Offeror in the event Offeror fails to: (1) meet schedules, deadlines, and/or delivery dates within the time specified in the procurement solicitation, contract, and/or a purchase order; (2) make any payments owed; or (3) otherwise perform in accordance with the contract and/or the procurement solicitation. Participating agency also reserves the right to terminate the contract immediately, with written notice to offeror, for convenience, if participating agency believes, in its sole discretion that it is in the best interest of participating agency to do so. Respondent will be compensated for work performed and accepted and goods accepted by participating agency as of the termination date if the contract is terminated for convenience of participating agency. Any award under this procurement process is not exclusive and participating agency reserves the right to purchase goods and services from other offerors when it is in participating agency's best interest.

Does Respondent agree? KS
(Initials of Authorized Representative)

3. *Equal Employment Opportunity*

Except as otherwise provided under 41 CFR Part 60, all participating agency purchases or contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 shall be deemed to include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR Part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

The equal opportunity clause provided under 41 CFR 60-1.4(b) is hereby incorporated by reference. Supplier Partner agrees that such provision applies to any participating agency purchase or contract that meets the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 and Supplier Partner agrees that it shall comply with such provision.

Does Respondent agree? KS
(Initials of Authorized Representative)

4. *Davis-Bacon Act*

When required by Federal program legislation, Supplier Partner agrees that, for all participating agency prime construction contracts/purchases in excess of two thousand dollars ($2,000), Supplier Partner shall comply with the Davis-Bacon Act (40 USC 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, Supplier Partner is required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determinate made by the Secretary of Labor. In addition, Supplier Partner shall pay wages not less than once a week.

Current prevailing wage determinations issued by the Department of Labor are available at www.wdol.gov. Supplier Partner agrees that, for any purchase to which this requirement applies, the award of the purchase to the Supplier Partner is conditioned upon Supplier Partner's acceptance of the wage determination.

Supplier Partner further agrees that it shall also comply with the Copeland "Anti-Kickback" Act (40 USC 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States". The Act provides that each Supplier Partner or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled.

Does Respondent agree? KS
(Initials of Authorized Representative)

5. *Contract Work Hours and Safety Standards Act*

Where applicable, for all participating agency contracts or purchases in excess of one hundred thousand dollars ($100,000) that involve the employment of mechanics or laborers, Supplier Partner agrees to comply with 40 USC 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 USC 3702 of the Act, Supplier Partner is required to compute the wages of every mechanic and laborer on the basis of a standard work week of forty (40) hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of forty (40) hours in the work week. The requirements of 40 USC 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

Does Respondent agree? KS
(Initials of Authorized Representative)

6. *Right to Inventions Made Under a Contract or Agreement*

If the participating agency's Federal award meets the definition of "funding agreement" under 37 CFR 401.2(a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance or experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

Supplier Partner agrees to comply with the above requirements when applicable.

Does Respondent agree? KS
(Initials of Authorized Representative)

7. *Clean Air Act and Federal Water Pollution Control Act*

Clean Air Act (42 USC 7401-7671q.) and the Federal Water Pollution Control Act (33 USC 1251-1387), as amended – Contracts and subgrants of amounts in excess of one hundred fifty thousand dollars ($150,000) must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 USC 7401-7671q.) and the Federal Water Pollution Control Act, as amended (33 USC 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

When required, Supplier Partner agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act and the Federal Water Pollution Control Act.

Does Respondent agree? KS
(Initials of Authorized Representative)

8. *Debarment and Suspension*

Debarment and Suspension (Executive Orders 12549 and 12689) – A contract award (see 2 CFR 180.220) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1966 Comp. p. 189) and 12689

(3CFR Part 1989 Comp. p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

Supplier Partner certifies that Supplier Partner is not currently listed on the government-wide exclusions in SAM, is not debarred, suspended, or otherwise excluded by agencies or declared ineligible under statutory or regulatory authority other than Executive Order 12549. Supplier Partner further agrees to immediately notify the Cooperative and all Members with pending purchases or seeking to purchase from Supplier Partner if Supplier Partner is later listed on the government-wide exclusions in SAM, or is debarred, suspended, or otherwise excluded by agencies or declared ineligible under statutory or regulatory authority other than Executive Order 12549.

Does Respondent agree? KS
(Initials of Authorized Representative)

9. *Byrd Anti-Lobbying Amendment*

Byrd Anti-Lobbying Amendment (31 USC 1352) – Supplier Partners that apply or bid for an award exceeding one hundred thousand dollars ($100,000) must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 USC 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award. As applicable, Supplier Partner agrees to file all certifications and disclosures required by, and otherwise comply with, the Byrd Anti-Lobbying Amendment (31 USC 1352).

Does Respondent agree? KS
(Initials of Authorized Representative)

10. *Procurement of Recovered Materials*

For participating agency purchases utilizing Federal funds, Supplier Partner agrees to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act where applicable and provide such information and certifications as a participating agency maybe required to confirm estimates and otherwise comply. The requirements of Section 6002 includes procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds ten thousand dollars ($10,000) or the value of the quantity acquired during the preceding fiscal year exceeded ten thousand dollars ($10,000); procuring solid waste management services in a manner that maximizes energy and resource recovery, and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

Does Respondent agree? KS
(Initials of Authorized Representative)

11. *Profit as a Separate Element of Price*

For purchases using federal funds in excess of one hundred fifty thousand dollars ($150,000), a participating agency may be required to negotiate profit as a separate element of the price. See, 2 CFR 200.324(b). When required by a participating agency, Supplier Partner agrees to provide information and negotiate with the participating agency regarding profit as a separate element of the price for a particular purchase. However, Supplier Partner agrees that the total price, including

profit, charged by Supplier Partner to the participating agency shall not exceed the awarded pricing, including any applicable discount, under Supplier Partner's Group Purchasing Agreement.

Does Respondent agree? KS
(Initials of Authorized Representative)

12. *Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment*

Vendor agrees that recipients and subrecipients are prohibited from obligating or expending loan or grant funds to procure or obtain, extend or renew a contract to procure or obtain, or enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system from companies described in Public Law 115-232, section 889. Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country are also prohibited.

Does Respondent agree? KS
(Initials of Authorized Representative)

13. *Domestic preferences for procurements*

For participating agency purchases utilizing Federal funds, Respondent agrees to provide proof, where applicable, that the materials, including but not limited to, iron, aluminum, steel, cement, and other manufactured products are produced in the United States.

"Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.

"Manufactured products" means items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

Does Respondent agree? KS
(Initials of Authorized Representative)

14. *General Compliance and Cooperation with Members*

In addition to the foregoing specific requirements, Vendor agrees, in accepting any purchase order from a Member, it shall make a good faith effort to work with Members to provide such information and to satisfy such requirements as may apply to a particular participating agency purchase or purchases including, but not limited to, applicable recordkeeping and record retention requirements.

Does Respondent agree? KS
(Initials of Authorized Representative)

15. *Applicability to Subcontractors*

Offeror agrees that all contracts it awards pursuant to the Contract shall be bound by the foregoing terms and conditions.

Does Respondent agree? KS
(Initials of Authorized Representative)

By signature below, I certify that the information in this form is true, complete, and accurate and that I am authorized by my company to make this certification and all consents and agreements contained herein.

Authorized signature: 

Printed Name: Kim Summers
Company Name: AstroTurf
Mailing Address: 2680 Abutment Rd. Dalton, Ga 30721
Job Title: National Director of Cooperative Purchasing

(The rest of this page is intentionally left blank)

PROPOSAL FORM 15: FEMA FUNDING REQUIREMENTS CERTIFICATION FORMS

Please answer the following question. If yes, complete this Proposal Form.

In the event of a contract award, does the Respondent intend to make their products and services available to public agencies utilizing FEMA funds or seeking reimbursement from FEMA?	☒	Yes
	☐	No

When a participating agency seeks to procure goods and services using funds under a federal grant or contract, specific federal laws, regulations, and requirements may apply in addition to those under state law. This includes, but is not limited to, the procurement standards of the Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards, 2 CFR 200 (sometimes referred to as the "Uniform Guidance" or "EDGAR" requirements). Additionally, Appendix II to Part 200 authorizes FEMA to require or recommend additional provisions for contracts.

All Respondents submitting proposals who desire to work with Members utilizing FEMA funds must complete this FEMA Recommended Contract Provisions Form regarding Respondent's willingness and ability to comply with certain requirements which may be applicable to specific participating agency purchases using FEMA funds. This completed form will be made available to Members for their use while considering their purchasing options when using FEMA grant funds. Members may also require Supplier Partners to enter into ancillary agreements, in addition to the contract's general terms and conditions, to address the member's specific contractual needs, including contract requirements for a procurement using federal grants or contracts.

For each of the items below, Respondent should certify Respondent's agreement and ability to comply, where applicable, by having respondents authorized representative complete and initial the applicable lines after each section and sign the acknowledgment at the end of this form. If a Respondent fails to complete any item in this form, CCOG will consider the respondent's response to be that they are unable or unwilling to comply. A negative response to any of the items may, if applicable, impact the ability of a participating agency to purchase from the Supplier Partner using federal funds.

1. *Access to Records*

For All Procurements

The Winning Supplier agrees to provide the participating agency, the pass-through entity (if applicable), the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.

The Winning Supplier agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

The Winning Supplier agrees to provide the FEMA Administrator or his authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.

Does Respondent agree? KS
(Initials of Authorized Representative)

For Contracts Entered into After August 1, 2017, Under a Major Disaster or Emergency Declaration

In compliance with section 1225 of the Disaster Recovery Reform Act of 2018, the participating agency, and the Winning Supplier acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States."

Does Respondent agree? KS
(Initials of Authorized Representative)

2. *Changes*

FEMA recommends that all contracts include a changes clause that describes how, if at all, changes can be made by either party to alter the method, price, or schedule of the work without breaching the contract. The language of the clause may depend on the nature of the contract and the procured item(s) or service(s). The participating agency should also consult their servicing legal counsel to determine whether and how contract changes are permissible under applicable state, local, or tribal laws or regulations.

Does Respondent agree? KS
(Initials of Authorized Representative)

3. *Use of DHS Seal, Logo, and Flags*

The Winning Supplier shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval. The contractor shall include this provision in any subcontracts.

Does Respondent agree? KS
(Initials of Authorized Representative)

4. *Compliance with Federal Law, Regulations, And Executive Orders and Acknowledgement of Federal Funding*

This is an acknowledgement that when FEMA financial assistance is used to fund all or a portion of the participating agency's contract with the Winning Supplier, the Winning Supplier will comply with all applicable federal law, regulations, executive orders, FEMA policies, procedures, and directives.

Does Respondent agree? KS
(Initials of Authorized Representative)

5. *No Obligation by Federal Government*

The federal government is not a party to this or any contract resulting from this or future procurements with the participating agencies and is not subject to any obligations or liabilities to the non-federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

Does Respondent agree? KS
(Initials of Authorized Representative)

6. *Program Fraud and False or Fraudulent Statements or Related Acts*

The Winning Supplier acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the contractor's actions pertaining to this contract.

Does Respondent agree? KS
(Initials of Authorized Representative)

7. *Affirmative Socioeconomic Steps*

If subcontracts are to be let, the Winning Supplier is required to take all necessary steps identified in 2 C.F.R. § 200.321(b)(1)-(5) to ensure that small and minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

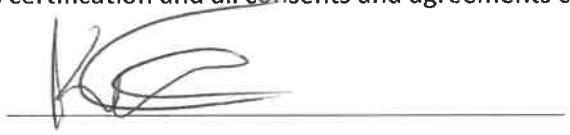
Does Respondent agree? KS
(Initials of Authorized Representative)

8. *License and Delivery of Works Subject to Copyright and Data Rights*

The Winning Supplier grants to the participating agency, a paid-up, royalty-free, nonexclusive, irrevocable, worldwide license in data first produced in the performance of this contract to reproduce, publish, or otherwise use, including prepare derivative works, distribute copies to the public, and perform publicly and display publicly such data. For data required by the contract but not first produced in the performance of this contract, the Winning Supplier will identify such data and grant to the participating agency or acquires on its behalf a license of the same scope as for data first produced in the performance of this contract. Data, as used herein, shall include any work subject to copyright under 17 U.S.C. § 102, for example, any written reports or literary works, software and/or source code, music, choreography, pictures or images, graphics, sculptures, videos, motion pictures or other audiovisual works, sound and/or video recordings, and architectural works. Upon or before the completion of this contract, the Winning Supplier will deliver to the participating agency data first produced in the performance of this contract and data required by the contract but not first produced in the performance of this contract in formats acceptable by the (insert name of the non-federal entity).

Does Respondent agree? KS
(Initials of Authorized Representative)

By signature below, I certify that the information in this form is true, complete, and accurate and that I am authorized by my company to make this certification and all consents and agreements contained herein.

Authorized signature: 

Printed Name: Kim Summers
Company Name: AstroTurf
Mailing Address: 2680 Abutment Rd. Dalton, GA 30721
Job Title: National Director of Cooperative Purchasing

PROPOSAL FORM 16: ARIZONA CONTRACTOR REQUIREMENTS

Please answer the following question. If yes, please complete this Proposal Form.

In the event of a contract award, does the Respondent intend to make their products and services available to public agencies in the State of Arizona?	☒	Yes
	☐	No

In the event the Awarded Supplier desires to pursue public sector opportunities in the State of Arizona, it is important to understand the requirements for working with those public agencies. The documentation and information contained in this proposal form are intended to provide the Respondent with documentation that could be relevant to the providing products & services to public agencies in the State of Arizona. It is the responsibility of the public agency to ensure they are in compliance with local requirements.

AZ Compliance with Federal and State Requirements
Contractor agrees when working on any federally assisted projects with more than $2,000.00 in labor costs, to comply with all federal and state requirements, as well as Equal Opportunity Employment requirements and all other federal and state laws, statutes, etc. Contractor agrees to post wage rates at the work site and submit a copy of their payroll to the member for their files. Contractor must retain records for three years to allow the federal grantor agency access to these records, upon demand. Contractor also agrees to comply with the Arizona Executive Order 75-5, as amended by Executive Order 99-4.

When working on contracts funded with Federal Grant monies, contractor additionally agrees to comply with the administrative requirements for grants, and cooperative agreements to state, local and federally recognized Indian Tribal Governments.

AZ compliance with workforce requirements
Pursuant to ARS 41-4401, Contractor and subcontractor(s) warrant their compliance with all federal and state immigration laws and regulations that relate to their employees, and compliance with ARS 23-214 subsection A, which states, ..." every employer, after hiring an employee, shall verify the employment eligibility of the employee through the E-Verify program"

CCOG reserves the right to cancel or suspend the use of any contract for violations of immigration laws and regulations. CCOG and its members reserve the right to inspect the papers of any contractor or subcontract employee who works under this contract to ensure compliance with the warranty above.

AZ Contractor Employee Work Eligibility
By entering into this contract, contractor agrees and warrants compliance with A.R.S. 41-4401, A.R.S. 23-214, the Federal Immigration and Nationality Act (FINA), and all other Federal immigration laws and regulations. CCOG and/or CCOG members may request verification of compliance from any contractor or sub-contractor performing work under this contract. CCOG and CCOG members reserve the right to confirm compliance. In the event that CCOG or CCOG members suspect or find that any contractor or subcontractor is not in compliance, CCOG may pursue any and all remedies allowed by law, including but not limited to suspension of work, termination of contract, suspension and/or debarment of the contractor. All cost associated with any legal action will be the responsibility of the contractor.

AZ Non-Compliance
All federally assisted contracts to members that exceed $10,000.00 may be terminated by the federal grantee for noncompliance by contractor. In projects that are not federally funded, Respondent must agree to meet any federal, state or local requirements as necessary. In addition, if compliance with the federal regulations increases the contract costs

beyond the agreed upon costs in this solicitation, the additional costs may only apply to the portion of the work paid by the federal grantee.

Registered Sex Offender Restrictions (Arizona)
For work to be performed at an Arizona school, contractor agrees that no employee or employee of a subcontractor who has been adjudicated to be a registered sex offender will perform work at any time when students are present, or reasonably expected to be present. Contractor agrees that a violation of this condition shall be considered a material breach and may result in the cancellation of the purchase order at the CCOG member's discretion. Contractor must identify any additional costs associated with compliance to this term. If no costs are specified, compliance with this term will be provided at no additional charge.

Offshore Performance of Work Prohibited
Due to security and identity protection concerns, direct services under this contract shall be performed within the borders of the United States.

Terrorism Country Divestments: In accordance with A.R.S. 35-392, CCOG and CCOG members are prohibited from purchasing from a company that is in violation of the Export Administration Act. By entering into the contract, contractor warrants compliance with the Export Administration Act.

The undersigned hereby accepts and agrees to comply with all statutory compliance and notice requirements listed in this document.

Does Respondent agree? KS
(Initials of Authorized Representative)

Date: 04/01/2025

(The rest of this page is intentionally left blank)

PROPOSAL FORM 17: NEW JERSEY REQUIREMENTS

Please answer the following question. If yes, complete this Proposal Form.

Does the awarded supplier intend to make their products and services available to public agencies in the State of New Jersey?	☒	Yes
	☐	No

In the event the Awarded Supplier desires to pursue public sector opportunities in the State of New Jersey, it is important to understand the requirements for working with those public agencies. The documentation and information contained in this proposal form are intended to provide the Respondent with documentation that could be relevant to the providing products & services to public agencies in the State of New Jersey. It is the responsibility of the public agency to ensure they are in compliance with local requirements.

New Jersey vendors are also required to comply with the following New Jersey statutes when applicable:

- All anti-discrimination laws, including those contained in N.J.S.A. 10:2-1 through N.J.S.A. 10:2-14, N.J.S.A. 10:5-1, and N.J.S.A. 10:5-31 through 10:5-38.
- Compliance with Prevailing Wage Act, N.J.S.A. 34:11-56.26, for all contracts within the contemplation of the Act.
- Compliance with Public Works Contractor Registration Act, N.J.S.A. 34:11-56.26
- Bid and Performance Security, as required by the applicable municipal or state statutes.

A. *Ownership Disclosure Form (N.J.S. 52:25-24.2)*

Pursuant to the requirements of P.L. 1999, Chapter 440 effective April 17, 2000 (Local Public Contracts Law), the Respondent shall complete the form attached to these specifications listing the persons owning 10 percent (10%) or more of the firm presenting the proposal.

Company Name: **AstroTurf Corporation**

Street: 2680 Abutment Rd.

City, State, Zip Code: **Dalton, Ga 30721**

Complete as appropriate:

I, Click or tap here to enter text. , certify that I am the sole owner of Click or tap here to enter text., that there are no partners and the business is not incorporated, and the provisions of N.J.S. 52:25-24.2 do not apply.

OR:

I, Click or tap here to enter text., a partner in Click or tap here to enter text., do hereby certify that the following is a list of all individual partners who own a 10% or greater interest therein. I further certify that if one (1) or more of the partners is itself a corporation or partnership, there is also set forth the names and addresses of the stockholders holding 10% or more of that corporation's stock or the individual partners owning 10% or greater interest in that partnership.

OR:

I, Kim Summers, an authorized representative AstroTurf Corporation, a corporation, do hereby certify that the following is a list of the names and addresses of all stockholders in the corporation who own 10% or more of its stock of any class. I further certify that if one (1) or more of such stockholders is itself a corporation or partnership, that there is also set forth the names and addresses of the stockholders holding 10% or more of the corporation's stock or the individual partners owning a 10% or greater interest in that partnership.

(Note: If there are no partners or stockholders owning 10% or more interest, indicate none.)

Name	Address	Interest
None		

I further certify that the statements and information contained herein, are complete and correct to the best of my knowledge and belief.

Signature: 

Date: April 3, 2025

(The rest of this page is intentionally left blank)

B. *Non-Collusion Affidavit*

Respondent Name: **Kim Summers**

Street Address: **2680 Abutment Road**

City, State Zip: **Dalton, GA 30721**

State of Georgia

County of Whitfield

I, Kim Summers of the Dalton City in the County of Whitfield, State of Georgia of full age, being duly sworn according to law on my oath depose and say that:

I am the National Director of Cooperative Purchasing of the firm of AstroTurf Corporation the Respondent making the Proposal for the goods, services or public work specified under the Harrison Township Board of Education attached proposal, and that I executed the said proposal with full authority to do so; that said Respondent has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above proposal, and that all statements contained in said bid proposal and in this affidavit are true and correct, and made with full knowledge that the Harrison Township Board of Education relies upon the truth of the statements contained in said bid proposal and in the statements contained in this affidavit in awarding the contract for the said goods, services or public work.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by

Authorized signature: _____

Job Title: National Director of Cooperative Purchasing

Subscribed and sworn before me

this 3rd day of April, 2025

_____

Notary Public of Georgia

My commission expires 9/15, 2025

SEAL

TAMMY L STEPHENS
NOTARY PUBLIC
WHITFIELD COUNTY, GEORGIA
COMMISSION EXPIRES SEPTEMBER 15, 2025

C. *Affirmative Action Affidavit (P.L. 1975, C.127)*

Company Name: AstroTurf Corporation

Street Address: 2680 Abutment Road

City, State, Zip Code: Dalton, GA 30721

Bid Proposal Certification:

Indicate below your compliance with New Jersey Affirmative Action regulations. Your proposal will be accepted even if you are not in compliance at this time. No contract and/or purchase order may be issued, however, until all Affirmative Action requirements are met.

Required Affirmative Action Evidence:

Procurement, Professional & Service Contracts (Exhibit A)

Suppliers must submit with proposal:

1. *A photo copy of their Federal Letter of Affirmative Action Plan Approval*
   OR
2. *A photo copy of their Certificate of Employee Information Report*
   OR
3. *A complete Affirmative Action Employee Information Report (AA302)*

Public Work – Over $50,000 Total Project Cost:

☒*No approved Federal or New Jersey Affirmative Action Plan. We will complete Report Form AA201-A upon receipt from the Harrison Township Board of Education*

☐*Approved Federal or New Jersey Plan – certificate enclosed*

I further certify that the statements and information contained herein, are complete and correct to the best of my knowledge and belief.

Authorized Signature:

Title of Signatory: National Director of Cooperative Purchasing

Date: April 3, 2025

P.L. 1995, c. 127 (N.J.A.C. 17:27)

MANDATORY AFFIRMATIVE ACTION LANGUAGE

PROCUREMENT, PROFESSIONAL AND SERVICE CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. The contractor will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment

advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this non-discrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisement for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation.

The contractor or subcontractor, where applicable, will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to P.L. 1975, c. 127, as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to attempt in good faith to employ minority and female workers trade consistent with the applicable county employment goal prescribed by N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, C.127, as amended and supplemented from time to time or in accordance with a binding determination of the applicable county employment goals determined by the Affirmative

Action Office pursuant to N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, C.127, as amended and supplemented from time to time.

The contractor or subcontractor agrees to inform in writing appropriate recruitment agencies in the area, including employment agencies, placement bureaus, colleges, universities, labor unions, that it does not discriminate on the basis of age, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of it testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the state of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

The contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and lay-off to ensure that all such actions are taken without regard to age, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation, and conform with the applicable employment goals, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor and its subcontractors shall furnish such reports or other documents to the Affirmative Action Office as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Affirmative Action Office for conducting a compliance investigation pursuant to Subchapter 10 of the Administrative Code (NJAC 17:27).



Signature of Procurement Agent

(The rest of this page is intentionally left blank)

D. *C. 271 Political Contribution Disclosure Form*

PUBLIC AGENCY INSTRUCTIONS

This page provides guidance to public agencies entering into contracts with business entities that are required to file Political Contribution Disclosure forms with the agency. **It is not intended to be provided to contractors.** What follows are instructions on the use of form local units can provide to contractors that are required to disclose political contributions pursuant to N.J.S.A. 19:44A-20.26 (P.L. 2005, c. 271, s.2). Additional information is available in Local Finance Notice 2006-1 (https://www.nj.gov/dca/divisions/dlgs/resources/lfns_2006.html).

1. The disclosure is required for all contracts in excess of $17,500 that are **not awarded** pursuant to a "fair and open" process (N.J.S.A. 19:44A-20.7).

2. Due to the potential length of some contractor submissions, the public agency should consider allowing data to be submitted in electronic form (i.e., spreadsheet, pdf file, etc.). Submissions must be kept with the contract documents or in an appropriate computer file and be available for public access. **The form is worded to accept this alternate submission.** The text should be amended if electronic submission will not be allowed.

3. The submission must be **received from the contractor and** on file at least 10 days prior to award of the contract. Resolutions of award should reflect that the disclosure has been received and is on file.

4. The contractor must disclose contributions made to candidate and party committees covering a wide range of public agencies, including all public agencies that have elected officials in the county of the public agency, state legislative positions, and various state entities. The Division of Local Government Services recommends that contractors be provided a list of the affected agencies. This will assist contractors in determining the campaign and political committees of the officials and candidates affected by the disclosure.

    a) The Division has prepared model disclosure forms for each county. They can be downloaded from the "County PCD Forms" link on the Pay-to-Play web site at https://www.state.nj.us/dca/divisions/dlgs/programs/pay_2_play.html They will be updated from time-to-time as necessary.

    b) A public agency using these forms **should edit them to properly reflect the correct legislative district**(s). As the forms are county-based, **they list all legislative districts** in each county. **Districts that do not represent the public agency should be removed from the lists.**

    c) Some contractors may find it easier to provide a single list that covers all contributions, regardless of the county. These submissions are appropriate and should be accepted.

    d) The form may be used "as-is", subject to edits as described herein.

    e) The "Contractor Instructions" sheet is intended to be provided with the form. It is recommended that the Instructions and the form be printed on the same piece of paper. The form notes that the Instructions are printed on the back of the form; where that is not the case, the text should be edited accordingly.

    f) The form is a Word document and can be edited to meet local needs, and posted for download on web sites, used as an e-mail attachment, or provided as a printed document.

5. It is recommended that the contractor also complete a "Stockholder Disclosure Certification." This will assist the local unit in its obligation to ensure that contractor did not make any prohibited contributions to the committees listed on the Business Entity Disclosure Certification in the 12 months prior to the contract. (See Local Finance Notice 2006-7 for additional information on this obligation) A sample Certification form is part of this package and the instruction to complete it is included in the Contractor Instructions. **NOTE: This section is not applicable to Boards of Education.**

CONTRACTOR INSTRUCTIONS

Business entities (contractors) receiving contracts from a public agency in the state of New Jersey that are NOT awarded pursuant to a "fair and open" process (defined at N.J.S.A. 19:44A-20.7) are subject to the provisions of P.L. 2005, c. 271, s.2 (N.J.S.A. 19:44A-20.26). This law provides that 10 days prior to the award of such a contract, the contractor shall disclose contributions to:

- any State, county, or municipal committee of a political party
- any legislative leadership committee*
- any continuing political committee (a.k.a., political action committee)
- any candidate committee of a candidate for, or holder of, an elective office:
    - of the public entity awarding the contract
    - of that county in which that public entity is located
    - of another public entity within that county
    - or of a legislative district in which that public entity is located or, when the public entity is a county, of any legislative district which includes all or part of the county. The disclosure must list reportable contributions to any of the committees that exceed $300 per election cycle that were made during the 12 months prior to award of the contract. See N.J.S.A. 19:44A-8 and 19:44A-16 for more details on reportable contributions.

N.J.S.A. 19:44A-20.26 itemizes the parties from whom contributions must be disclosed when a business entity is not a natural person. This includes the following:

- individuals with an "interest" ownership or control of more than 10% of the profits or assets of a business entity or 10% of the stock in the case of a business entity that is a corporation for profit
- all principals, partners, officers, or directors of the business entity or their spouses
- any subsidiaries directly or indirectly controlled by the business entity
- IRS Code Section 527 New Jersey based organizations, directly or indirectly controlled by the business entity and filing as continuing political committees, (PACs). When the business entity is a natural person, "a contribution by that person's spouse or child, residing therewith, shall be deemed to be a contribution by the business entity." [N.J.S.A. 19:44A-20.26(b)] The contributor must be listed on the disclosure. Any business entity that fails to comply with the disclosure provisions shall be subject to a fine imposed by ELEC in an amount to be determined by the Commission which may be based upon the amount that the business entity failed to report. The enclosed list of agencies is provided to assist the contractor in identifying those public agencies whose elected official and/or candidate campaign committees are affected by the disclosure requirement. It is the contractor's responsibility to identify the specific committees to which contributions may have been made and need to be disclosed. The disclosed information may exceed the minimum requirement. The enclosed form, a content-consistent facsimile, or an electronic data file containing the required details (along with a signed cover sheet) may be used as the contractor's submission and is disclosable to the public under the Open Public Records Act. The contractor must also complete the attached Stockholder Disclosure Certification. This will assist the agency in meeting its obligations under the law.

NOTE: This section does not apply to Board of Education contracts.

[1] N.J.S.A. 19:44A-3(s): "The term "legislative leadership committee" means a committee established, authorized to be established, or designated by the President of the Senate, the Minority Leader of the Senate, the Speaker of the General Assembly or the Minority Leader of the General Assembly pursuant to section 16 of P.L.1993, c.65 (C.19:44A-10.1) for the purpose of receiving contributions and making expenditures."

C. 271 POLITICAL CONTRIBUTION DISCLOSURE FORM

Required Pursuant To N.J.S.A. 19:44A-20.26

This form or its permitted facsimile must be submitted to the local unit no later than 10 days prior to the award of the contract.

Part I – Vendor Information

Vendor Name:	AstroTurf Corporation		
Address:	2680 Abutment Road		
City:	Dalton	State:Georgia	Zip:30721

The undersigned being authorized to certify, hereby certifies that the submission provided herein represents compliance with the provisions of N.J.S.A. 19:44A-20.26 and as represented by the Instructions accompanying this form.

Signature of Vendor	Kim Summers Printed Name	National Director of Cooperative Purchasing Title

Part II – Contribution Disclosure

Disclosure requirement: Pursuant to N.J.S.A. 19:44A-20.26 this disclosure must include all reportable political contributions (more than $300 per election cycle) over the 12 months prior to submission to the committees of the government entities listed on the form provided by the local unit.

☐ Check here if disclosure is provided in electronic form.

Contributor Name	Recipient Name	Date	Dollar Amount
N/A			$

☐ Check here if the information is continued on subsequent page(s)

Continuation Page

C. 271 POLITICAL CONTRIBUTION DISCLOSURE FORM

Required Pursuant To N.J.S.A. 19:44A-20.26

Page ___ of _____

Vendor Name:

Contributor Name	Recipient Name	Date	Dollar Amount
Contributor Name	Recipient Name	Date	Amount
Contributor Name	Recipient Name	Date	Amount
Contributor Name	Recipient Name	Date	Amount
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Contributor Name	Recipient Name	Date	Amount
Contributor Name	Recipient Name	Date	Amount
Contributor Name	Recipient Name	Date	$Amount
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Contributor Name	Recipient Name	Date	$Amount
Contributor Name	Recipient Name	Date	$Amount
Contributor Name	Recipient Name	Date	$Amount

☐ Check here if the information is continued on subsequent page(s)

List of Agencies with Elected Officials Required for Political Contribution Disclosure

N.J.S.A. 19:44A-20.26

County Name:

State: Governor, and Legislative Leadership Committees

Legislative District #s:

State Senator and two members of the General Assembly per district.

County:

Freeholders	County Clerk	Sheriff
{County Executive}	Surrogate	

Municipalities (Mayor and members of governing body, regardless of title):

USERS SHOULD CREATE THEIR OWN FORM, OR DOWNLOAD FROM WWW.NJ.GOV/DCA/LGS/P2P A COUNTY-BASED, CUSTOMIZABLE FORM.

E. *Stockholder Disclosure Certification*

Name of Business:

☐ I certify that the list below contains the names and home addresses of all stockholders holding 10% or more of the issued and outstanding stock of the undersigned.

OR

☑ I certify that no one stockholder owns 10% or more of the issued and outstanding stock of the undersigned.

Check the box that represents the type of business organization:

- ☐ Partnership
- ☒ Corporation
- ☐ Sole Proprietorship
- ☐ Limited Partnership
- ☐ Limited Liability Corporation
- ☐ Limited Liability Partnership
- ☐ Subchapter S Corporation

Sign and notarize the form below, and, if necessary, complete the stockholder list below.

Stockholders:

Name: Stockholder Name Home Address: Home Address	Name: Stockholder Name Home Address: Home Address
Name: Stockholder Name	Name: Stockholder Name

Home Address: Home Address	Home Address: Home Address
Name: Stockholder Name Home Address: Home Address	Name: Stockholder Name Home Address: Home Address
Subscribed and sworn before me this ___ day of _____, 2__. (Notary Public) My Commission expires:	_____ (Affiant) _____ (Print name & title of affiant) (Corporate Seal)

(The rest of this page is intentionally left blank)

PROPOSAL FORM 18: GENERAL TERMS AND CONDITIONS ACCEPTANCE FORM

Check one of the following responses to the General Terms and Conditions in this solicitation, including the Master Agreement:

☒ We take no exceptions/deviations to the general terms and conditions. *(**Note**: If none are listed below, it is understood that no exceptions/deviations are taken.)*

☐ We take the following exceptions/deviations to the general terms and conditions. All exceptions/deviations must be clearly explained. Reference the corresponding general terms and conditions that you are taking exceptions/deviations to. Clearly state if you are adding additions terms and conditions to the general terms and conditions. Provide details on your exceptions/deviations below:

Click or tap here to enter text.

*(**Note**: Unacceptable exceptions shall remove your proposal from consideration for award. CCOG shall be the sole judge on the acceptance of exceptions/deviations and the decision shall be final.)*

PROPOSAL FORM 19: EQUALIS GROUP ADMINISTRATION AGREEMENT DECLARATION

Attachment A - Sample Administration Agreement of this solicitation is for reference only. Contracting with Equalis Group and the Winning Supplier will occur after contract award.

Execution of the Administration Agreement is required for the Master Agreement to be administered by Equalis Group. **Attachment A - Sample Administration Agreement** defines i) the roles and responsibilities of both parties relating to marketing and selling the Program to current and prospective Members, and ii) the financial terms between Equalis Group and Winning Supplier.

Redlined copies of this agreement should not be submitted with the response. Should a Respondent be recommended for award, this agreement will be negotiated and executed between Equalis Group and the Respondent. Respondents must select one of the following options for submitting their response.

☒ Respondent agrees to all terms and conditions in **Attachment A - Sample Administration Agreement**.

☐ Respondent wishes to negotiate directly with Equalis Group on terms and conditions in the Sample Administration Agreement. Negotiations will commence with Equalis Group after CCOG has completed the contract award.

PROPOSAL FORM 20: MASTER AGREEMENT SIGNATURE FORM

RESPONDENTS MUST SUBMIT THIS FORM COMPLETED AND SIGNED WITH THEIR RESPONSE TO BE CONSIDERED FOR AWARD. RESPONDENTS WHO FAIL TO DO SO WILL BE DETERMINED UNRESPONSIVE AND WILL NO LONGER BE CONSIDERED FOR AWARD.

The undersigned hereby proposes and agrees to furnish Products & Services in strict compliance with the terms, specifications, and conditions contained within this RFP and the Master Agreement at the prices proposed within the submitted proposal unless noted in writing. The undersigned further certifies that he/she is an officer of the company and has authority to negotiate and bind the company named below and has not prepared this proposal in collusion with any other Respondent and that the contents of this proposal as to prices, terms or conditions of said proposal have not been communicated by the undersigned nor by any employee or agent to any person engaged in this type of business prior to the official opening of this proposal.

Company Name	AstroTurf Corporation
Address	2680 Abutment Road
City/State/Zip	Dalton, GA 30721
Phone Number	706.264.1314
Email Address	kim.summers@astroturf.com
Printed Name	Kim Summers
Job Title	National Director Cooperative Purchasing
Authorized Signature	

Initial Term of the Master Agreement

Contract Effective Date:	July 1, 2025
Contract Expiration Date:	June 30, 2029
Contract Number:	

*(**Note**: Contract Number will be applied prior to CCOG and Equalis Group countersigning.)*

The Cooperative Council of Governments, Inc.
6001 Cochran Road, Suite 333
Cleveland, Ohio 44139

By:	
Name:	Franklyn A. Corlett
As:	CCOG Board President
Date:	

Equalis Group, LLC.
5540 Granite Parkway, Suite 200
Plano, Texas 75024

By:	
Name:	Eric Merkle
As:	EVP, Procurement & Operations
Date:	

AstroTurf Corp., Dalton, GA

Income Statement
For the Financial Period From January 1 through December 31, 2023

	Jan-Dec 2023 US$	Jan-Dec 2022 US$
1. Sales	254.116.551	214.259.676
2. Decrease/increase in finished goods and work-in-process	(4.645.412)	611.984
3. Other operating income	514.105	11.700
4. Cost of materials		
a) Cost of raw materials, supplies and merchandise	(127.804.177)	(124.097.583)
b) Cost of purchased services	(38.334.322)	(26.321.419)
	(166.138.499)	(150.419.002)
5. Personnel expenses		
a) Wages and salaries	(27.968.517)	(24.375.979)
b) Social security, pension and other benefits	(5.686.109)	(4.649.300)
	(33.654.626)	(29.025.279)
6. Depreciation and amortisation costs and other write-offs		
Amortization and depreciation on intangible assets and plant and equipment	(2.477.563)	(2.231.846)
	(2.477.563)	(2.231.846)
7. Other operating expenses	(28.167.914)	(20.981.091)
8. Other interest and similar income	569.917	73.132
9. Interest and similar expenses	(1.377.129)	(1.008.689)
10. Taxes on income	(3.656.093)	(2.721.235)
11. Result after taxes on income	**15.083.337**	**8.569.350**
12. Other taxes	(74.985)	(84.212)
13. Net income	**15.008.352**	**8.485.138**

AstroTurf

The second half of the AstroTurf Century

INSTALLATION LIST

Install	Class	Product	Facility Name	City	State	Year	Size	Type	Contact	Phone
A&M Consolidated Middle School	Middle School	Rhino SF	Stadium Field	College Station	TX	2024	95,987	Football / Soccer		
Abbott ISD	High School	RootZone 3D3 Trionic Blend	Football Field	Abbott	TX	2024	94,856	Football		
Academy High School	High School	RootZone 3D3 Trionic Blend	Football Practice Field	Little River-Academy	TX	2024	107,408	Football / Soccer		
Acadiana High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lafayette	LA	2024	113,163	Football / Soccer		
AIM Academy	High School	RootZone 3D3 Trionic Blend	Soccer Field	Conshohocken	PA	2024	54,750	Soccer		
Alma High School	High School	RootZone 3D3 Trionic Blend	Stadium	Alma	MI	2024	105,589	Football / Soccer		
Alpharetta High School	High School	RootZone 3DM Trionic	Multipurpose	Alpharetta	GA	2024	52,946	Football / Lacrosse / Soccer		
Anne Arundel County Public Schools - Glen Burnie High School	High School	RootZone 3D3 Trionic Blend	Stadium	Glen Burnie	MD	2024	108,925	Field Hockey / Football / Lacrosse / Soccer		
Anne Arundel County Public Schools - Southern High School	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Harwood	MD	2024	98,477	Field Hockey / Lacrosse / Soccer		



Anniston High School	High School	Rhino Blend	Lott-Mosby Stadium	Anniston	AL	2024	89,931	Football / Soccer		
Appalachian State University	Division I	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Field	Boone	NC	2024	56,797	Softball		
Assumption Parish High School	High School	Rhino Blend	Stadium	Napoleonville	LA	2024	93,011	Football / Soccer		
Aurora Public Schools	High School	RootZone 3D3 Trionic Blend	Aurora District Stadium	Aurora	CO	2024	86,466	Football / Lacrosse / Soccer		
Ballparks National	Private	Rhino SF HR	Field 2	Macks Creek	MO	2024	114,758	Baseball		
Ballparks National	Private	Rhino SF HR	Field 1	Macks Creek	MO	2024	116,285	Baseball		
Ballparks National	Private	Rhino SF HR	Field 3	Macks Creek	MO	2024	134,043	Baseball		
Banneker High School	High School	RootZone 3DM	Practice Field	College Park	GA	2024	85,326	Football / Lacrosse / Soccer		



AstroTurf

The second half of the AstroTurf Century

INSTALLATION LIST

Belmont University	Division I	ERA RootZone Diamond RBI / RootZone 3D3 Trionic Blend / RootZone Diamond-i RBI	Baseball Field	Nashville	TN	2024	159,712	Baseball		
Berkley High School	High School	Rhino Blend	Stadium	Berkley	MI	2024	114,717	Football / Soccer		
Blair Oaks High School	High School	ERA RootZone Diamond OPS / Rhino SF HR / RootZone Diamond-i OPS	Baseball Field	Jefferson City	MO	2024	130,503	Baseball		
Boys' Latin School	High School	RootZone 3D3 Trionic Blend	Lower Field	Baltimore	MD	2024	85,907	Football / Lacrosse		
Boys' Latin School	High School	RootZone 3D3 Trionic Blend	Upper Field	Baltimore	MD	2024	78,165	Lacrosse / Soccer		
Braden River High School	High School	Rhino Blend	Stadium	Bradenton	FL	2024	111,426	Football / Lacrosse / Soccer		
Bridgewater Township	Community	Rhino Blend	1000 Turf Field	Bridgewater	NJ	2024	81,187	Field Hockey / Football / Lacrosse / Soccer		



Bridgewater Township	Community	Rhino Blend	MCT Field	Bridgewater	NJ	2024	90,321	Football / Lacrosse / Soccer		
Brookland High School	High School	RootZone 3D3 Trionic Blend	Track & Field Facility	Brookland	AR	2024	85,366	Multipurpose		
Bryn Mawr College	Division III	Poligras Paris GT	Field Hockey Field	Bryn Mawr	PA	2024	74,250	Field Hockey		
Bryn Mawr College	Division III	RootZone 3D3 Trionic Blend	Applebee Field	Bryn Mawr	PA	2024	92,821	Lacrosse / Soccer		
Buckeye Central High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Infield	New Washington	OH	2024	18,116	Softball		
Buckeye Central High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	New Washington	OH	2024	35,361	Baseball		



Burlington High School	High School	Rhino Blend	Stadium	Burlington	VT	2024	103,373	Field Hockey / Football / Lacrosse / Soccer		
C. Milton Wright High School	High School	RootZone 3DSF	Stadium	Bel Air	MD	2024	114,867	Field Hockey / Football / Lacrosse / Soccer		
Cabot Public Schools	High School	Rhino Blend	Multi-Use Practice Pavilion	Cabot	AR	2024	81,852	Football / Soccer		
Camas High School	High School	RootZone 3D3 Trionic Blend	Cardon Field	Camas	WA	2024	113,935	Football / Lacrosse / Soccer		
Cambridge High School	High School	LigaTurf RootZone 3DM	Stadium Field	Milton	GA	2024	109,936	Football / Lacrosse / Soccer		
Cambridge High School	High School	RootZone 3DM	Practice Field	Milton	GA	2024	83,096	Football / Lacrosse / Soccer		



Camden County High School	High School	ERA RootZone Diamond RBI / Rhino Blend / Rhino SF HR / RootZone Diamond-i RBI	Baseball Field	Kingsland	GA	2024	117,552	Baseball		
Camden County High School	High School	ERA RootZone Diamond RBI / Rhino Blend / Rhino SF HR / RootZone Diamond-i RBI	Softball Field	Kingsland	GA	2024	45,453	Softball		
Camden Stockton Station Park	Community	RootZone 3D3 Trionic Blend	Multipurpose	Camden	NJ	2024	89,440	Football / Soccer		
Canyon High School	High School	RootZone 3D3 Trionic Blend	Stadium	Santa Clarita	CA	2024	97,352	Football / Lacrosse / Soccer		
Carencro High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lafayette	LA	2024	92,260	Football / Soccer		
Carroll High School	High School	RootZone 3D3 Trionic Blend	Stadium	Ozark	AL	2024	91,160	Football / Soccer		
Castle Shannon Borough	Community	RootZone 3D3 Trionic Blend	Multipurpose Field	Castle Shannon	PA	2024	82,613	Baseball / Soccer		



Centennial Middle School	Middle School	RootZone 3D3 Trionic Blend	Multipurpose	Snohomish	WA	2024	82,735	Football / Lacrosse / Soccer		
Center for the Deaf and Hard of Hearing Youths	Community	RootZone 3D3 Trionic Blend	Soccer Field	Vancouver	WA	2024	40,000	Soccer		
Central High School	High School	RootZone 3D3 Trionic Blend	Koligian Stadium	Fresno	CA	2024	118,225	Football / Soccer		
Central Michigan University	Division I	RootZone 3D3 Trionic Blend	Indoor	Mount Pleasant	MI	2024	72,444	Football		
Ceres High School	High School	RootZone 3D3 Trionic Blend	Stadium	Ceres	CA	2024	91,501	Football / Soccer		
Chicago Fire FC	Professional	PGPN / RootZone 3DM	Training Complex	Chicago	IL	2024	322,049	Soccer		
Coffee County High School	High School	RootZone 3D3 Trionic Blend	Indoor Facility	Douglas	GA	2024	58,754	Football / Soccer		
College Station Middle School	Middle School	Rhino SF	Stadium Field	College Station	TX	2024	96,745	Football / Soccer		
Colorado School of Mines	Division II	Rhino Blend	Multipurpose Field	Golden	CO	2024	87,313	Football (Miscellaneous) / Lacrosse / Soccer		
Community ISD Middle School	Middle School	Rhino Blend	Stadium	Lavon	TX	2024	96,225	Football / Soccer		



Compton High School	High School	RootZone 3D3 Trionic Blend	Stadium	Compton	CA	2024	83,595	Football / Lacrosse / Soccer		
Compton High School	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Compton	CA	2024	87,854	Football / Lacrosse / Soccer		
Concordia University Wisconsin	Division III	RootZone 3DM	Soccer / Lacrosse Field	Mequon	WI	2024	102,622	Lacrosse / Soccer		
Creekside High School	High School	RootZone 3DM Trionic	Multipurpose Field	Fairburn	GA	2024	58,092	Football / Soccer		
Cypress High School	High School	RootZone 3D3 Trionic Blend	Stadium	Cypress	CA	2024	89,015	Football / Soccer		
Dakota State University	NAIA	RootZone 3D3 Trionic Blend	Football Stadium	Madison	SD	2024	103,423	Football		
Daphne High School	High School	Rhino Blend	Stadium Field	Daphne	AL	2024	95,000	Football / Soccer		
Darlington High School	High School	Rhino Blend	Stadium	Darlington	SC	2024	108,116	Football / Soccer		
Denmark Elementary School	Elementary School	PureGrass	Multipurpose	Denmark	WI	2024	15,120	Baseball (Miscellaneous) / Multipurpose		
Desert Christian High School	High School	RootZone 3D3 Trionic Blend	Stadium	Tucson	AZ	2024	109,655	Football / Soccer		



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INSTALLATION LIST

Douglasville, City of	Community	RootZone 3D3 Trionic Blend HD	Jesse Davis Park	Douglasville	GA	2024	112,186	Football / Lacrosse / Soccer		
East Bay High School	High School	RootZone 3D3 Trionic Blend	Stadium	Gibsonton	FL	2024	112,801	Football / Soccer		
Eastern Mennonite University	Division III	RootZone 3D3 Trionic Blend	Multipurpose Field	Harrisonburg	VA	2024	87,516	Field Hockey / Lacrosse / Soccer		
Eden Christian Academy	High School	Rhino SF HR	Baseball Infield	Sewickley	PA	2024	28,000	Baseball		
Eden Christian Academy	High School	Rhino SF HR	Baseball Outfield / Soccer	Sewickley	PA	2024	50,712	Baseball / Soccer		
Elmbrook United	Community	Ligaturf RootZone 3D3 Blend	Voigt Park Field 2	Brookfield	WI	2024	99,860	Soccer		
Emerald Ridge High School	High School	RootZone 3D3 Trionic Blend	Stadium	Puyallup	WA	2024	98,594	Football / Lacrosse / Multipurpose / Soccer		
Farmersville High School	High School	RootZone 3D3 Trionic Blend	Stadium	Farmersville	TX	2024	89,151	Football / Soccer		
Flamingo Park	Community	RootZone 3D3 Trionic Blend	Soccer Field	Miami Beach	FL	2024	44,148	Soccer		



Fluvanna County High School	High School	RootZone 3D3 Trionic Blend	Stadium	Palmyra	VA	2024	83,585	Field Hockey / Football / Lacrosse / Soccer		
Forest Hills Northern High School	High School	Rhino Blend	Stadium	Grand Rapids	MI	2024	108,906	Football / Lacrosse / Soccer		
Fort Dodge	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Yankee Stadium	Fort Dodge	IA	2024	60,104	Softball		
Fort Thomas High School	High School	RootZone 3D3 Trionic Blend	Football Stadium	Fort Thomas	AZ	2024	84,178	Football		
Girard High School	High School	RootZone 3D3 Trionic Blend	Stadium	Girard	OH	2024	89,390	Football / Soccer		
Gonzaga University	Division I	RootZone 3D3 Trionic Blend	Patterson Complex - Indoor Baseball	Spokane	WA	2024	25,799	Baseball (Miscellaneous)		
Graham High School	High School	RootZone 3D3 Trionic Blend	Stadium	Bluefield	VA	2024	98,163	Football / Soccer		



Grand Valley State University	Division II	RootZone 3D3 Trionic Blend	Lubbers Stadium	Allendale	MI	2024	94,106	Football		
Grand Valley State University	Division II	ERA RootZone Diamond OPS / Rhino Blend / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Allendale	MI	2024	162,267	Baseball		
Grandville High School	High School	RootZone 3D3 Trionic Blend	Stadium	Grandville	MI	2024	112,049	Football		
Greenville High School	High School	RootZone 3D3 Trionic Blend	Stadium	Greenville	OH	2024	100,267	Football / Soccer		
Greenville High School	High School	Rhino Blend	Stadium	Greenville	GA	2024	106,703	Football / Soccer		
Greenville University	Division III	Rhino SF HR / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Greenville	IL	2024	124,705	Baseball		



Gulliver Prep Lower School	High School	Ligaturf RootZone 3D3 Blend	Stadium	Pincrest	FL	2024	89,981	Football / Lacrosse / Soccer		
Hagerstown Multi-Use Sports and Events Facility	Private	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Meritus Park	Hagerstown	MD	2024	163,040	Baseball		
Harbor Springs High School	High School	RootZone 3D3 Trionic Blend	Stadium	Harbor Springs	MI	2024	113,588	Football / Soccer		
Harmony Public Schools	High School	RootZone 3D3 Trionic Blend	Stadium Field	Beaumont	TX	2024	84,658	Football / Soccer		
Hartsville High School	High School	Rhino Blend	Kelleytown Stadium	Hartsville	SC	2024	114,780	Football / Soccer		
Hawthorne High School	High School	RootZone 3D3 Trionic Blend	Stadium	Hawthorne	CA	2024	93,367	Football / Soccer		
Heard County High School	High School	RootZone 3D3 Trionic Blend	Stadium	Franklin	GA	2024	110,081	Football		
Heard County High School	High School	RootZone 3D3 Trionic Blend HD	Indoor Field	Franklin	GA	2024	45,827	Football		
Hedgesville High School	High School	Rhino SF	Stadium	Hedgesville	WV	2024	104,749	Football / Soccer		



Herbert Hoover High School	High School	RootZone 3D3 Trionic Blend	Stadium	Glendale	CA	2024	86,873	Football / Soccer		
Hillsborough County	Community	RootZone 3D3 Trionic Blend	Larry Sanders Sports Complex	Tampa	FL	2024	85,000	Football / Soccer		
Holly School District	High School	Rhino Blend	Stadium	Holly	MI	2024	104,650	Football / Lacrosse / Soccer		
Hondo High School	High School	RootZone 3D3 Trionic Blend	Football Stadium	Hondo	TX	2024	89,917	Football		
Hub Sports Complex	Private	RootZone 3D3 Trionic Blend	Field 2	Liberty Lake	WA	2024	109,804	Football / Lacrosse / Soccer		
Hub Sports Complex	Private	RootZone 3D3 Trionic Blend	Field 1	Liberty Lake	WA	2024	106,104	Football / Lacrosse / Soccer		
Hudson Valley Renegades	Professional	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Dutchess County Stadium	Wappingers Falls	NY	2024	131,518	Baseball		
Illinois Institute of Technology	Division III	RootZone 3D3 Trionic Blend	Stadium	Chicago	IL	2024	102,854	Lacrosse / Soccer		



Inglewood Middle School	Middle School	RootZone 3D3 Trionic Blend	Multipurpose Field	Sammamish	WA	2024	134,788	Baseball / Lacrosse / Soccer / Softball		
Inglewood Middle School	Middle School	RootZone 3D3 Trionic Blend	Football Field	Sammamish	WA	2024	92,954	Football / Lacrosse / Soccer		
Iowa, University of	Division I	ERA RootZone Diamond OPS / Rhino Blend / Rhino SF HR / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball	Iowa City	IA	2024	131,162	Baseball		
Jacksonville State University	Division I	RootZone 3D3 Trionic Blend	Football Stadium	Jacksonville	AL	2024	90,235	Football		
James Madison University	Division I	Poligras Platinum	Field Hockey	Harrisonburg	VA	2024	93,391	Field Hockey		
Jennings Park	Community	Rhino Blend / RootZone Diamond-i RBI	Baseball Championship Field	Statesville	NC	2024	30,692	Baseball		



Jennings Park	Community	Rhino Blend / RootZone Diamond-i RBI	Baseball Field 3	Statesville	NC	2024	20,561	Baseball		
Jennings Park	Community	Rhino Blend / RootZone Diamond-i RBI	Baseball Field 2	Statesville	NC	2024	30,783	Baseball		
Jennings Park	Community	Rhino Blend / RootZone Diamond-i RBI	Baseball Field 1	Statesville	NC	2024	20,560	Baseball		
Jennings Park	Community	RootZone 3D3 Trionic Blend	Soccer Field	Statesville	NC	2024	416,605	Soccer		
John Burroughs School	High School	AstroTurf 12	Field Hockey	St. Louis	MO	2024	89,616	Field Hockey		
John F. Kennedy Catholic Preparatory School	High School	Rhino Blend	Stadium	Somers	NY	2024	85,208	Field Hockey / Football / Lacrosse / Soccer		
Junipero Serra High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	San Mateo	CA	2024	116,192	Baseball		



Jupiter High School	High School	RootZone 3D3 Trionic Blend	Stadium	Jupiter	FL	2024	91,000	Football / Lacrosse / Soccer		
Kulshan Middle School	Middle School	RootZone 3D3 Trionic Blend	Multipurpose	Bellingham	WA	2024	98,569	Football / Lacrosse / Soccer		
La Costa Canyon High School	High School	RootZone 3D3 Trionic Blend	Football Mini Field	Carlsbad	CA	2024	11,768	Football (Miscellaneous)		
La Porte High School	High School	RootZone 3D3 Trionic Blend	Football Stadium	LaPorte	TX	2024	104,693	Football / Soccer		
Lake Brantley High School	High School	Rhino Blend	Baseball Infield	Altamonte	FL	2024	40,989	Baseball		
Lake Fayetteville	Community	ERA RootZone Diamond OPS / RootZone Diamond-i OPS	Softball Field 3	Fayetteville	AR	2024	18,865	Softball		
Lake Fayetteville	Community	ERA RootZone Diamond OPS / RootZone Diamond-i OPS	Softball Field 2	Fayetteville	AR	2024	18,655	Softball		
Lake Fayetteville	Community	ERA RootZone Diamond OPS / RootZone Diamond-i OPS	Softball Field 1	Fayetteville	AR	2024	18,655	Softball		



Lakewood Ranch High School	High School	Rhino Blend	Stadium	Lakewood Ranch	FL	2024	122,398	Football / Lacrosse / Soccer		
Langston Hughes High School	High School	RootZone 3DM Trionic	Multipurpose	South Fulton	GA	2024	82,823	Football / Lacrosse / Soccer		
Lawndale High School	High School	ERA RootZone Diamond OPS / RootZone 3D3 Trionic Blend / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Multipurpose Field	Lawndale	CA	2024	144,593	Baseball / Football / Lacrosse / Soccer		
Lawndale High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Lawndale	CA	2024	60,000	Softball		
Lewisburg Area School District	High School	RootZone 3D3 Trionic Blend	Field Hockey	Lewisburg	PA	2024	105,911	Field Hockey		



Liberty High School	High School	Rhino SF	Softball Field	Liberty	MO	2024	61,359	Softball		
Lincoln High School	High School	Rhino Blend	Stadium	Des Moines	IA	2024	79,723	Football / Soccer		
Livermore, City of	Community	RootZone 3D3 Trionic Blend	Cayetano Park	Livermore	CA	2024	92,000	Lacrosse / Soccer		
Lower Columbia College	Community College	RootZone Diamond-i RBI	Baseball Infield	Longview	WA	2024	13,311	Baseball		
LSU Eunice	Community College	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Eunice	LA	2024	155,367	Baseball		
Lynchburg, City of	Community	RootZone 3D3 Trionic Blend	Lynchburg City Stadium	Lynchburg	NC	2024	121,402	Football / Soccer		
Marshall University	Division I	RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Indoor Turf	Huntington	WV	2024	16,071	Baseball (Miscellaneous)		
Martinsburg High School	High School	Rhino SF HR	Softball Infield	Martinsburg	WV	2024	15,108	Softball		
Medina Valley High School	High School	RootZone 3D3 Trionic Blend	Stadium	Castroville	TX	2024	81,530	Football / Soccer		



Melissa Sports Complex	Community	RootZone 3D3 Trionic Blend	Field 3	Melissa	TX	2024	90,003	Soccer		
Melissa Sports Complex	Community	RootZone 3D3 Trionic Blend	Field 2	Melissa	TX	2024	95,252	Soccer		
Melissa Sports Complex	Community	RootZone 3D3 Trionic Blend	Field 5	Richardson	TX	2024	90,003	Soccer		
Melissa Sports Complex	Community	RootZone 3D3 Trionic Blend	Field 1	Richardson	TX	2024	90,003	Soccer		
Melissa Sports Complex	Community	RootZone 3D3 Trionic Blend	Field 6	Melissa	TX	2024	95,252	Soccer		
Melissa Sports Complex	Community	RootZone 3D3 Trionic Blend HD	Field 4	Richardson	TX	2024	90,003	Soccer		
Mercersburg Academy	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Mercersburg	PA	2024	98,038	Field Hockey / Lacrosse / Soccer		
Metcalfe County High School	High School	Rhino SF	Football Stadium	Metcalfe	MO	2024	126,734	Football		
Miami, City of	Community	Rhino Blend	Shenandoah Park	Miami	FL	2024	39,275	Soccer		
Microsoft West Campus	Private	RootZone 3D3 Trionic Blend	Soccer Field	Kirkland	WA	2024	70,630	Soccer		



Middletown High School	High School	RootZone 3D3 Trionic Blend	Stadium	Middletown Township	NJ	2024	91,195	Field Hockey / Football / Lacrosse / Soccer		
Mifflin County School District	High School	Rhino Blend	Softball Infield	Lewistown	PA	2024	13,889	Softball		
Mifflin County School District	High School	Rhino Blend	Baseball Infield	Lewistown	PA	2024	37,053	Baseball		
Mifflin County School District	High School	Rhino Blend	Stadium	Lewistown	PA	2024	110,859	Field Hockey / Football / Lacrosse / Soccer		
Mifflin County School District	High School	Rhino Blend	Multipurpose Field	Lewistown	PA	2024	105,238	Field Hockey / Football / Lacrosse / Soccer		
Millsap High School	High School	RootZone 3D3 Trionic Blend	Football Field	Millsap	TX	2024	112,642	Football		
Milton High School	High School	RootZone 3DM Trionic	Multipurpose Field	Milton	GA	2024	86,221	Football / Lacrosse / Soccer		



Montgomery Township High School	High School	RootZone 3D3 Trionic Blend	Stadium	Skillman	NJ	2024	105,974	Field Hockey / Football / Lacrosse / Soccer		
Montlake Elementary School	Elementary School	RootZone 3D3 Trionic Blend	Rooftop	Seattle	WA	2024	7,159	Soccer		
Morris County Parks	Community	Rhino Blend	Multipurpose Field	Morris Plains	NJ	2024	93,047	Lacrosse / Soccer		
Mt Zion High School	High School	ERA RootZone Diamond OPS / Rhino Blend / RootZone 3D3 Trionic Blend	Baseball / Softball Field	jonesboro	GA	2024	121,821	Baseball / Softball		
Mustang High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Mustang	OK	2024	158,706	Baseball		
New Braunfels Christian Academy	High School	RootZone 3D3 Trionic Blend	Stadium	New Braunfels	TX	2024	92,718	Football / Lacrosse / Soccer		



New Glarus High School	High School	Rhino Blend	Stadium	New Glarus	WI	2024	116,300	Football / Soccer		
Newark High School	High School	Rhino SF HR	Softball Field	Newark	OH	2024	56,373	Softball		
Newport News Public Schools	High School	RootZone 3D3 Trionic Blend	Todd Stadium	Newport News	VA	2024	87,217	Field Hockey / Football / Soccer		
Norfolk Academy	High School	RootZone 3D3 Trionic Blend	Stadium	Norfolk	VA	2024	97,543	Football / Lacrosse		
Norte Vista High School	High School	RootZone 3D3 Trionic Blend	Stadium	Riverside	CA	2024	95,973	Football / Lacrosse / Soccer		
North Augusta Miracle League	Community	PureGrass / RootZone 3D3 Trionic Blend	Multipurpose	North Augusta	SC	2024	68,296	Baseball / Multipurpose		
North East Area School District	High School	RootZone 3D3 Trionic Blend	Stadium	North East	PA	2024	95,965	Football / Soccer		
North Liberty High School	High School	Rhino SF	Softball Field	Liberty	MO	2024	56,403	Softball		
North Muskegon High School	High School	RootZone 3D3 Trionic Blend	Soccer Field	North Muskegon	MI	2024	87,489	Lacrosse / Soccer		
Northern Illinois University	Division I	RootZone 3D3 Trionic Blend	Football Stadium	DeKalb	IL	2024	143,368	Football		
Northern Michigan University	Division II	PureGrass	Superior Dome	Marquette	MI	2024	90,200	Football		



Northglenn High School	High School	RootZone 3D3 Trionic Blend	Stadium	Northglenn	CO	2024	85,566	Football / Lacrosse / Soccer		
Northshore Middle School	Middle School	RootZone 3D3 Trionic Blend	Multipurpose Field	Bothell	WA	2024	97,700	Football / Lacrosse / Soccer		
Northside High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lafayette	LA	2024	118,749	Football / Soccer		
Oklahoma, University of	Division I	RootZone Diamond Blend RBI	Indoor Practice Softball Field	Norman	OK	2024	20,121	Softball (Miscellaneous)		
Oklahoma, University of	Division I	RootZone Diamond Blend RBI	Softball Apron	Norman	OK	2024	20,121	Softball (Miscellaneous)		
Old Dominion University	Division I	AstroTurf 12	Field Hockey	Norfolk	VA	2024	97,901	Field Hockey		
Olentangy Liberty High School	High School	Rhino Blend	Multipurpose Field	Powell	OH	2024	79,800	Field Hockey / Football / Lacrosse / Soccer		
Olympic Middle School	Middle School	RootZone 3D3 Trionic Blend	Multipurpose Field	Auburn	WA	2024	149,740	Baseball / Lacrosse / Soccer / Softball		



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Olympic Middle School	Middle School	RootZone 3D3 Trionic Blend	Multipurpose Field	Auburn	WA	2024	130,503	Football / Lacrosse / Soccer		
Packsaddle Elementary School	Elementary School	Rhino Blend	Practice Area	Kingsland	TX	2024	46,924	Football		
Paris Junior College	Community College	Rhino SF HR	Softball Field	Paris	TX	2024	61,637	Softball		
Paris Junior College	Community College	Rhino SF HR	Baseball Field	Paris	TX	2024	166,343	Baseball		
Paxon High School	High School	RootZone 3D3 Trionic Blend	Stadium	Jacksonville	FL	2024	133,625	Football		
Pete's Pool Baseball Field	Private	RootZone 3D3 Trionic Blend	Baseball Infield	Enumclaw	WA	2024	20,208	Baseball		
Petoskey High School	High School	RootZone 3D3 Trionic Blend	Stadium	Petoskey	MI	2024	98,906	Football / Lacrosse / Soccer		
Pittsburgh Public Schools	High School	Rhino SF	Multipurpose Field	Pittsburgh	PA	2024	95,740	Field Hockey / Football / Lacrosse / Soccer		
Pleasant Grove High School	High School	RootZone 3D3 Trionic Blend	Indoor	Texarkana	TX	2024	56,646	Football / Multipurpose		
Pleasant Grove High School	High School	RootZone 3D3 Trionic Blend	Football Stadium	Texarkana	TX	2024	99,099	Football		



Plymouth-Canton Community Schools	High School	Rhino SF	Stadium Field	Canton	MI	2024	104,536	Field Hockey / Football / Lacrosse / Soccer		
Portland, University of	Division I	RootZone Diamond-i RBI	Baseball Infield	Portland	OR	2024	14,014	Baseball		
Post University	Division II	RootZone 3D3 Trionic Blend	Multipurpose	Waterbury	CT	2024	125,000	Football / Lacrosse / Soccer / Softball		
Prague High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	Prague	OK	2024	32,990	Baseball		
Prague High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Prague	OK	2024	13,998	Softball		



Prairie High School	High School	RootZone 3D3 Trionic Blend	Football Field	Raymer	CO	2024	102,446	Football		
Prairie View High School	High School	Rhino Blend / RootZone 3D3 Trionic Blend / RootZone Diamond Blend OPS	Baseball Field	Henderson	CO	2024	47,678	Baseball		
Princeton University	Division I	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Field	Princeton	NJ	2024	49,498	Softball		
Pulaski Academy	High School	Rhino Blend	Practice Field	Little Rock	AR	2024	35,839	Football (Miscellaneous)		
Pulaski Academy	High School	ERA RootZone Diamond OPS / Rhino SF HR / RootZone Diamond-i OPS	Baseball Field	Little Rock	AR	2024	148,326	Baseball		
Redford Union Schools	High School	Rhino Blend	Stadium	Redford Charter TWP	MI	2024	113,217	Football / Soccer		



Richlands High School	High School	RootZone 3D3 Trionic Blend	Stadium	Richlands	VA	2024	104,044	Football / Soccer		
Riverview High School	High School	RootZone 3D3 Trionic Blend	Stadium	Riverview	FL	2024	109,292	Football / Soccer		
RJ Reynolds High School	High School	RootZone 3D3 Trionic Blend	Stadium	Winston-Salem	NC	2024	100,708	Field Hockey / Football / Lacrosse / Soccer		
Rogers State University	Division II	ERA RootZone Diamond OPS / Rhino SF / RootZone Diamond-i OPS	Softball Field	Claremore	OK	2024	47,872	Softball		
Rogers State University	Division II	RootZone 3DM Trionic	Soccer Field	Claremore	OK	2024	117,840	Soccer		
Sage Hill High School	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Newport Beach	CA	2024	81,598	Football / Soccer		
Sahuarita High School	High School	RootZone 3D3 Trionic Blend	Stadium	Sahuarita	AZ	2024	92,566	Football / Soccer		
Saint Joseph's University	Division I	Poligras Platinum	Ellen Ryan Field	Merion Station	PA	2024	71,720	Field Hockey		
Saint Stephen's Episcopal School	High School	RootZone 3D3 Trionic Blend	Stadium	Bradenton	FL	2024	96,976	Football / Lacrosse / Soccer		



Sanders Middle School	Middle School	RootZone 3D3 Trionic Blend	Stadium	Sanders	AZ	2024	105,802	Football / Soccer		
Scottsdale Christian Academy	High School	RootZone 3D3 Trionic Blend	Stadium	Phoenix	AZ	2024	99,185	Football / Soccer		
Scranton School District	High School	Rhino SF	Veterans Memorial Stadium	Scranton	PA	2024	75,599	Football / Soccer		
Seattle Sounders	Professional	RootZone 3D3 Trionic Blend	Training Facility Field #4	Renton	WA	2024	108,154	Soccer		
Shadow Ridge High School	High School	RootZone 3D3 Trionic Blend	Stadium	Surprise	AZ	2024	102,186	Football / Soccer		
Skyview Middle School	Middle School	RootZone 3D3 Trionic Blend	Multipurpose Field	Bothell	WA	2024	94,890	Football / Lacrosse / Soccer		
Smithville Middle School	Middle School	RootZone 3D3 Trionic Blend	Stadium	Smithville	MO	2024	89,103	Football / Soccer		
Southeast High School	High School	Rhino Blend	Stadium	Bradenton	FL	2024	111,429	Football / Soccer		
Southwest Covenant Schools	High School	RootZone 3D3 Trionic Blend	Stadium	Yukon	OK	2024	92,400	Football / Soccer		
Spanish Fort High School	High School	Rhino Blend	Stadium	Spanish Fort	AL	2024	81,180	Football / Soccer		
Sports Hub Dome Complex	Private	RootZone 3D3 Trionic Blend	Indoor Soccer	Somersworth	NH	2024	109,906	Soccer		



Spoto High School	High School	RootZone 3D3 Trionic Blend	Stadium	Riverview	FL	2024	112,621	Football / Soccer		
St Paul Lutheran Church & School	High School	Ligaturf RootZone 3D3 Blend	Soccer Field	Boca Raton	FL	2024	71,033	Soccer		
St. Louis University	Division I	AstroTurf 12	Field Hockey Field	St. Louis	MO	2024	70,313	Field Hockey		
St. Michael the Archangel High School	High School	RootZone 3D3 Trionic Blend	Stadium	Baton Rouge	LA	2024	110,431	Football / Soccer		
Sunrise Middle School	Middle School	RootZone 3DSF	Multipurpose Field	Kearney	NE	2024	103,825	Football / Soccer		
Tazewell High School	High School	RootZone 3D3 Trionic Blend	Stadium	Tazewell	VA	2024	104,044	Football / Soccer		
Terry Parker High School	High School	RootZone 3D3 Trionic Blend	Stadium	Jacksonville	FL	2024	114,985	Football		
The Lawrenceville School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Lawrenceville	NJ	2024	121,924	Field Hockey / Football / Lacrosse / Soccer		
Thomas Jefferson High School	High School	Rhino Blend / RootZone Diamond-i RBI	Softball Field	Auburn	WA	2024	41,657	Softball		



Thomas Jefferson High School	High School	ERA RootZone Diamond RBI / Rhino Blend / RootZone Diamond Blend OPS / RootZone Diamond-i RBI	Baseball Field	Auburn	WA	2024	100,639	Baseball		
Toronto Blue Jays	Professional	RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Rogers Centre	Toronto	CAN	2024	136,914	Baseball		
Tri-Cities High School	High School	RootZone 3DM	Practice Field	East Point	GA	2024	64,411	Football / Lacrosse / Soccer		
Truman High School	High School	RootZone 3DSF	Stadium	Independence	MO	2024	115,692	Football / Soccer		
Twin Lakes High School	High School	RootZone 3D3 Trionic Blend	Stadium	Monticello	IN	2024	119,033	Football / Soccer		



UC Santa Barbara	Division I	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Goleta	CA	2024	170,044	Baseball		
Upson Lee High School	High School	RootZone 3D3 Trionic Blend	Stadium	Thomaston	GA	2024	104,230	Football / Soccer		
USC Aiken	Division II	ERA RootZone Diamond OPS / Rhino SF / RootZone Diamond-i OPS	Softball Field	Aiken	SC	2024	60,840	Softball		
Valdosta High School	High School	ERA RootZone Diamond OPS / Rhino Blend	Baseball Field	Valdosta	GA	2024	125,000	Baseball		
Valdosta High School	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend OPS / RootZone Diamond-i RBI	Softball Field	Valdosta	GA	2024	45,000	Softball		



Valley Christian High School	High School	RootZone 3D3 Trionic Blend	Stadium	Cerritos	CA	2024	94,365	Football / Soccer		
Valley Vista High School	High School	RootZone 3D3 Trionic Blend	Stadium	Surprise	AZ	2024	102,710	Football / Soccer		
Walden Grove High School	High School	RootZone 3D3 Trionic Blend	Stadium	Sahuarita	AZ	2024	91,192	Football / Soccer		
Walled Lake Northern High School	High School	Rhino SF	Stadium	Commerce Charter Twp.	MI	2024	92,582	Football / Lacrosse / Soccer		
Washington State University	Division I	RootZone 3D3 Trionic Blend	Taylor Sports Complex	Pullman	WA	2024	81,106	Football / Soccer		
Washington State University	Division I	RootZone Diamond Blend OPS / RootZone Diamond-i RBI	Baseball Infield	Pullman	WA	2024	24,282	Baseball		
Wausau West High School	High School	RootZone 3D3 Trionic Blend	Stadium	Wausau	WI	2024	108,513	Football / Lacrosse / Soccer		
Wellborn Middle School	Middle School	Rhino SF	Stadium Field	College Station	TX	2024	95,686	Football / Soccer		



Wenatchee High School	High School	RootZone Diamond Blend OPS / RootZone Diamond-i RBI	Softball Field	Wentachee	WA	2024	58,587	Softball		
Wesleyan University	Division III	Poligras Paris GT	Field Hockey Field	Middletown	CT	2024	79,200	Field Hockey		
West Valley High School	High School	RootZone 3D3 Trionic Blend	Yakima Stadium	Yakima	WA	2024	77,679	Football / Soccer		
Westlake High School	High School	RootZone 3DM Trionic	Multipurpose	Atlanta	GA	2024	62,546	Football / Lacrosse / Soccer		
Westmoore High School	High School	RootZone 3D3 Trionic Blend	Stadium	Oklahoma City	OK	2024	85,000	Football / Soccer		
WF West High School	High School	Rhino Blend / RootZone 3D3 Trionic Blend / RootZone Diamond-i OPS	Baseball Field	Chehalis	WA	2024	133,896	Baseball		
Widefield Parks & Recreation	Community	RootZone 3D3 Trionic Blend	Multipurpose Field	Colorado	CO	2024	80,201			
Wilkes-Barre Area High School	High School	RootZone 3D3 Trionic Blend	Baseball Field	Wilkes-Barre	PA	2024	156,184	Baseball		



Woodland Regional High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Beacon Falls	CT	2024	96,094	Football / Soccer		
Wooster High School	High School	RootZone 3DM Trionic	Stadium	Wooster	OH	2024	112,423	Football / Soccer		
Wyoming Valley West High School	High School	RootZone 3D3 Trionic Blend	Stadium	Kingston	PA	2024	99,580	Field Hockey / Football / Soccer		
York City School District	High School	Rhino SF	Multipurpose Field	York	PA	2024	255,477	Baseball / Football / Soccer / Softball		
Young Harris College	Division II	RootZone 3D3 Trionic Blend	Soccer / Lacrosse Field	Young Harris	GA	2024	92,997	Lacrosse / Soccer		
A.M. Barbe High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	Baton Rouge	LA	2023	44,890	Baseball		
Abilene Christian University	Division I	RootZone 3D3 Trionic Blend	Football Practice Field	Abilene	TX	2023	38,843	Football		
Adams State University	Division II	RootZone 3D3 Trionic Blend	Football Stadium	Alamosa	CO	2023	97,247	Football		



Alchesay High School	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Field	Whiteriver	AZ	2023	118,652	Baseball		
Alchesay High School	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Field	Whiteriver	AZ	2023	51,730	Softball		
Alexandria Senior High School	High School	Rhino Blend	Stadium	Alexandria	LA	2023	116,000	Football / Soccer		
Alisal High School	High School	RootZone 3D3 Trionic Blend	Stadium	Salinas	CA	2023	92,000	Football / Soccer		
Alleghany High School	High School	RootZone 3D3 Trionic Blend	Stadium	Sparta	NC	2023	86,500	Football / Soccer		



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American River College	Community College	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Sacramento	CA	2023	54,885	Softball		
Anaheim High School	High School	RootZone 3D3 Trionic Blend	Stadium	Signal Hill	CA	2023	78,000	Football / Soccer		
Anne Arundel County Public Schools - Annapolis High School	High School	RootZone 3D3 Trionic Blend	Multipurpose Field #2	Annapolis	MD	2023	89,856	Field Hockey / Lacrosse / Soccer		
Appalachian State University	Division I	Poligras Platinum	State Farm Fields Complex	Boone	NC	2023	61,910	Field Hockey		
Armwood High School	High School	RootZone 3D3 Trionic Blend	Stadium	Seffner	FL	2023	94,328	Football / Lacrosse / Soccer		
Arrowhead Elementary	Elementary School	RootZone 3D3 Trionic Blend	Multipurpose Field	Kenmore	WA	2023	35,000	Multipurpose / Soccer		
Atlanta Braves - Cool Today Park	Professional	RootZone Diamond Blend RBI	Infield / Bullpens / Batting Cages	North Port	FL	2023	40,000	Baseball		
Auburn Riverside High School	High School	RootZone 3D3 Trionic Blend	Stadium	Auburn	WA	2023	75,720	Football / Soccer		



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Auburn School District	High School	RootZone 3D3 Trionic Blend	Memorial Stadium	Auburn	WA	2023	76,203	Football / Soccer		
Babcock Ranch	Private	RootZone Diamond Blend OPS	Softball Field	Punta Gorda	FL	2023	49,709	Softball		
Babcock Ranch	Private	RootZone 3D3 Trionic Blend HD	Football / Multipurpose Field	Punta Gorda	FL	2023	105,183	Football / Lacrosse / Soccer		
Babcock Ranch	Private	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Punta Gorda	FL	2023	121,676	Baseball		
Banning Lewis Preparatory Academy	High School	RootZone 3D3 Trionic Blend	Stadium	Colorado Springs	CO	2023	91,005	Football / Soccer		
Barnesville High School	High School	RootZone 3D3 Trionic Blend	Shamrock Stadium	Barnesville	OH	2023	72,728	Football	John Blatter	740-310-7002
Battle Creek Central High School	High School	RootZone 3D3 Trionic Blend	Stadium	Battle Creek	MI	2023	79,585	Football		



Beggs High School	High School	ERA RootZone Diamond OPS / Rhino SF / RootZone Diamond-i OPS	Softball Field	Beggs	OK	2023	41,583	Softball		
Beggs High School	High School	ERA RootZone Diamond OPS / Rhino SF / RootZone Diamond-i OPS	Baseball Infield	Beggs	OK	2023	33,013	Baseball		
Bellarmine Prep High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	San Jose	CA	2023	92,963	Baseball		
Benjamin Franklin High School	High School	RootZone 3D3 Trionic Blend	Stadium	Queen Creek	AZ	2023	81,720	Football / Soccer		
Benjamin Logan High School	High School	RootZone 3D3 Trionic Blend	Stadium	Bellefontaine	OH	2023	81,860	Football / Soccer		
Benton Elementary School	Elementary School	RootZone 3D3 Trionic Blend	Multipurpose Fields	Benton	AR	2023	38,035	Multipurpose	Benton New Elementary School	



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Berlin High School	High School	RootZone 3D3 Trionic Blend	Stadium	Berlin	CT	2023	127,000	Football / Lacrosse / Soccer		
Bethel Middle School	Middle School	Rhino SF	Stadium	Waynesville	NC	2023	86,405	Football / Soccer		
Bishop Eustace Preparatory School	High School	Rhino Blend	Stadium	Merchantville	NJ	2023	102,658	Field Hockey / Football / Lacrosse / Soccer		
Bishop O'Dowd High School	High School	RootZone 3D3 Trionic Blend	Stadium	Oakland	CA	2023	72,047	Football / Lacrosse / Soccer		
Blue Mountain High School	High School	RootZone 3D3 Trionic Blend	Stadium	Phoenixville	PA	2023	109,000	Football / Soccer		
Bonney Lake High School	High School	RootZone 3D3 Trionic Blend	Stadium	Bonney Lake	WA	2023	77,342	Football / Lacrosse / Soccer		
Boonton High School	High School	Rhino Blend	Stadium	Boonton	NJ	2023	81,376	Field Hockey / Football / Lacrosse / Soccer		
Boston College	Division I	RootZone 3D3 Trionic Blend	Alumni Stadium	Chestnut Hill	MA	2023	73,905	Football		
Boston University	Division I	AstroTurf 12	New Balance Field	Boston	MA	2023	89,843	Field Hockey		



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Boyne City School District	High School	AstroMod	Indoor	Boyne City	MI	2023	8,606	Multipurpose		
Brandon High School	High School	Rhino Blend	Stadium	Ortonville	MI	2023	102,000	Football / Lacrosse / Soccer		
Brighton, City of	Community	RootZone 3D3 Trionic Blend	Water Tower Park - Field 3	Brighton	CO	2023	48,600	Football / Soccer		
Brighton, City of	Community	RootZone 3D3 Trionic Blend	Water Tower Park - Field 1	Brighton	CO	2023	85,500	Football / Lacrosse / Soccer		
Brighton, City of	Community	RootZone 3D3 Trionic Blend	Water Tower Park - Field 2	Brighton	CO	2023	43,356	Football / Soccer		
Bristow High School	High School	RootZone 3D3 Trionic Decade	Hafer Field	Bristow	OK	2023	97,056	Football / Soccer		
Bryn Mawr School	High School	RootZone 3D3 Trionic Blend HD	Multipurpose Field	Baltimore	MD	2023	77,350	Field Hockey / Lacrosse / Soccer		
Buena Vista Elementary	Elementary School	RootZone 3D3 Trionic Blend	Multipurpose	Alamogordo	NM	2023	26,102	Multipurpose		
Butler High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Augusta	GA	2023	93,850	Football / Soccer		
Cadillac High School	High School	RootZone 3D3 Trionic Blend	Stadium	Cadillac	MI	2023	94,713	Football / Soccer		



Caledonia High School	High School	RootZone 3D3 Trionic Blend	Stadium	Caledonia	MI	2023	110,170	Football		
California State University, Monterey Bay	Division II	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Infield	Seaside	CA	2023	14,608	Softball		
Calvary Christian High School	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Field	Clearwater	FL	2023	120,000	Baseball		
Calvin University	Division III	RootZone 3D3 Trionic Blend	Soccer Field	Grand Rapids	MI	2023	106,000	Soccer		
Capistrano Unified School District - San Clemente High School	High School	RootZone 3D3 Trionic Blend	Stadium	San Clemente	CA	2023	79,745	Football / Lacrosse / Soccer		
Carrollton High School	High School	RootZone 3D3 Trionic Blend	Stadium	Carrollton	GA	2023	73,250	Football / Lacrosse / Soccer		



Carver Middle School	Middle School	RootZone 3D3 Trionic Blend	Soccer Field	Los Angeles	CA	2023	86,725	Soccer		
Cascade Middle School	Middle School	RootZone 3D3 Trionic Blend	Multipurpose Field	Eugene	OR	2023	83,600	Soccer / Softball		
Cedar Falls High School	High School	Rhino Blend	Stadium	Cedar Falls	IA	2023	89,314	Football / Soccer		
Central Florida, University of	Division I	Rhino SF	Intramural Fields	Orlando	FL	2023	222,785	Football / Intramurals / Lacrosse / Soccer		
Central Georgia Technical College	Community College	Rhino Blend	Stadium	Warner Robins	GA	2023	109,408	Football / Soccer		
Chaparral High School	High School	RootZone 3D3 Trionic Blend	Stadium	Temecula	CA	2023	83,000	Football / Lacrosse / Soccer		
Chariton High School	High School	Rhino Blend	Reynolds Field	Chariton	IA	2023	114,080	Football / Soccer		
Chattanooga, City of	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Warner Park Softball Fields Field 2	Chattanooga	TN	2023	48,035	Softball		



Chattanooga, City of	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Warner Park Softball Fields Field 1 Primary	Chattanooga	TN	2023	50,235	Softball		
Chattanooga, University of Tennessee at	Division I	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Jim Frost Stadium	Chattanooga	TN	2023	41,300	Softball		
City Of Worthington - McCord Park	Community	Diamond Series HR	McCord Park	Worthington	OH	2023	85,000	Baseball / Softball		
Clare Turf Room	Private	RootZone 3D3 Trionic Blend	Multipurpose	Clare	MI	2023	9,773	Multipurpose		
Claxton High School	High School	RootZone 3D3 Trionic Blend	Stadium	Claxton	GA	2023	104,830	Football / Soccer		
Coahulla Creek High School	High School	RootZone 3D3 Trionic Blend	Stadium	Dalton	GA	2023	95,000	Football / Soccer		
College of Saint Rose	Division II	RootZone 3D3 Trionic Blend	Soccer / Lacrosse Field	Albany	NY	2023	103,000	Lacrosse / Soccer		



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Collier County Sports Complex	Community	RootZone 3D3 Trionic Blend	Field 7	Naples	FL	2023	101,848	Football		
Community High School	High School	RootZone 3D3 Trionic Blend	Stadium	Nevada	TX	2023	93,957	Football / Soccer		
Connecticut, University of	Division I	Poligras Platinum	Field Hockey	Storrs	CT	2023	71,803	Field Hockey		
Cook Children's - Walsh Ranch	Private	RootZone 3D3 Trionic Blend	Rehabilitation Field	Fort Worth	TX	2023	10,491	Multipurpose		
Coolidge High School	High School	RootZone 3D3 Trionic Blend	Stadium	Coolidge	TX	2023	100,294	Football / Soccer		
Cooper ISD	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield	Cooper	TX	2023	30,974	Baseball		
Cooper ISD	High School	RootZone Diamond Blend RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Infield	Cooper	TX	2023	12,523	Softball		
Cortez High School	High School	RootZone 3D3 Trionic Blend	Stadium	Phoenix	AZ	2023	88,526	Football / Soccer		



Crestwood High School	High School	Rhino Blend	Stadium	Dearborn Heights	MI	2023	110,000	Football / Soccer		
Cristo Rey St. Martin College Prep	High School	RootZone 3D3 Trionic Blend	Soccer Field	Waukegan	IL	2023	93,546	Soccer		
Cross Creek High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Augusta	GA	2023	100,908	Football / Soccer		
Dakota State University	NAIA	RootZone 3D3 Trionic Blend	Soccer Stadium	Madison	SD	2023	90,623	Football / Soccer		
Daphne Sports Complex	Community	RootZone Diamond Blend OPS	Baseball Field 8	Daphne	AL	2023	20,041	Baseball		
Daphne Sports Complex	Community	RootZone Diamond Blend OPS	Baseball Field 10	Daphne	AL	2023	34,907	Baseball		
Daphne Sports Complex	Community	RootZone Diamond Blend OPS	Baseball Field 6	Daphne	AL	2023	20,041	Baseball		
Daphne Sports Complex	Community	RootZone Diamond Blend OPS	Baseball Field 7	Daphne	AL	2023	20,041	Baseball		
Daphne Sports Complex	Community	RootZone Diamond Blend OPS	Softball Field 2	Daphne	AL	2023	20,894	Softball		



Daphne Sports Complex	Community	RootZone Diamond Blend OPS	Softball Field 3	Daphne	AL	2023	20,894	Softball		
Daphne Sports Complex	Community	RootZone Diamond Blend OPS	Softball Field 4	Daphne	AL	2023	20,894	Softball		
Daphne Sports Complex	Community	RootZone Diamond Blend OPS	Softball Field 5	Daphne	AL	2023	20,894	Softball		
Daphne Sports Complex	Community	RootZone Diamond Blend OPS	Softball Field 1	Daphne	AL	2023	20,894	Softball		
Daphne Sports Complex	Community	RootZone Diamond Blend OPS	Baseball Field 9	Daphne	AL	2023	34,907	Baseball		
Davidson College	Division I	RootZone 3D3 Trionic Blend	Stadium	Davidson	NC	2023	91,800	Football / Lacrosse		
Deer Creek High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Edmond	OK	2023	23,675	Softball		



Deer Creek High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	Edmond	OK	2023	35,000	Baseball		
Delaware, University of	Division I	RootZone 3D3 Trionic Blend	Frazer Field	Newark	DE	2023	170,555	Band / Football / Intramurals / Multipurpose / Rugby / Soccer		
Delaware, University of	Division I	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Bob Hannah Baseball Stadium	Newark	DE	2023	137,000	Baseball		
Delta, City of	Community	GT	North Delta Community Park	Delta	CAN	2023	130,156	Baseball / Field Hockey / Lacrosse / Soccer		



Denison University	Division III	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Field	Granville	OH	2023	45,309	Softball		
Dexter High School	High School	RootZone 3D3 Trionic Blend	Stadium	Dexter	MI	2023	101,159	Field Hockey / Football / Lacrosse / Soccer		
Dothan High School	High School	RootZone 3D3 Trionic Blend HD	Practice Field	Dothan	AL	2023	45,884	Football		
Dothan, City of	Community	RootZone 3D3 Trionic Blend	Grandview Field	Dothan	AL	2023	82,665	Multipurpose		
Dysart High School	High School	RootZone 3D3 Trionic Blend	Stadium	El Mirage	AZ	2023	89,703	Football / Soccer		
E.D. White Catholic High School	High School	RootZone 3D3 Trionic Blend	Stadium	Thibodaux	LA	2023	105,209	Football / Soccer		
Earlham College	Division III	Rhino Blend / RootZone Diamond-i OPS	Softball Field	Richmond	IN	2023	57,072	Softball		



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Eastern Illinois University	Division I	Rhino SF / RootZone 3D3 Trionic Blend	Stadium	Charleston	IL	2023	86,000	Football	Eric Wahls	217-218-9076
Eastlake High School	High School	RootZone 3D3 Trionic Blend	Baseball / Multipurpose Field	Sammamish	WA	2023	120,006	Baseball / Lacrosse / Soccer		
Ecorse High School	High School	Rhino Blend	Stadium	Ecorse	MI	2023	89,575	Football / Soccer		
Edison Township Public Schools	High School	RootZone 3D3 Trionic Blend	Stadium	Edison	NJ	2023	111,000	Football / Lacrosse / Soccer		
Edward Little High School	High School	Rhino SF	Stadium	Auburn	ME	2023	110,189	Football		
Edward O'Malley Athletic Complex	Community	Rhino SF HR	Multipurpose Field	Exton	PA	2023	53,926	Baseball		
Emerald High School	High School	RootZone 3D3 Trionic Blend	Stadium	Dublin	CA	2023	96,861	Football / Soccer		
Englewood High School	High School	RootZone 3D3 Trionic Blend	Stadium	Jacksonville	FL	2023	88,929	Football		
Farmersville High School	High School	RootZone 3D3 Trionic Blend	Indoor	Farmersville	TX	2023	71,633	Football / Soccer		
Federal Way Memorial Stadium	High School	RootZone 3D3 Trionic Blend	Stadium	Federal Way	WA	2023	77,887	Football / Soccer		
Ferndale High School	High School	RootZone 3D3 Trionic Blend	Stadium	Ferndale	WA	2023	90,000	Football / Soccer		



Fontana High School	High School	RootZone 3D3 Trionic Blend	Stadium	Fontana	CA	2023	78,463	Football / Soccer		
Fountain Hills High School	High School	RootZone 3D3 Trionic Blend	Stadium	Fountain Hills	AZ	2023	90,590	Football / Soccer		
Franklin Area School District	High School	Rhino SF HR	Baseball Infield	Franklin	PA	2023	31,280	Baseball		
Franklin Community High School	High School	RootZone 3D3 Trionic Blend	Stadium	Franklin	IN	2023	91,000	Football / Soccer		
Freeman High School	High School	RootZone 3D3 Trionic Blend	Stadium	Tekoa	WA	2023	77,440	Football / Soccer		
Fresno Indoor Soccer	Private	RootZone 3D3 Trionic Blend	Indoor	Fresno	CA	2023	16,000	Soccer		
Frontier High School	High School	RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Infield	Red Rock	OK	2023	12,075	Softball		
Gahanna Lincoln High School	High School	RootZone 3DM Trionic	Stadium	Columbus	OH	2023	87,900	Football / Lacrosse / Soccer		
George Fox University	Division III	RootZone 3D3 Trionic Blend	Austin Sports Complex	Newberg	OR	2023	93,100	Lacrosse / Soccer		
Georgetown University	Division I	RootZone 3D3 Trionic Blend	Cooper Field	Washington	DC	2023	91,200	Football		



Gilmer County High School	High School	RootZone 3D3 Trionic Blend	Stadium	Ellijay	GA	2023	80,170	Football / Soccer		
Go Pro Baseball	Private	PGPN / RootZone 3D3 Trionic Blend	Infield / Multipurpose	Plainfield	IL	2023	69,376	Baseball / Baseball (Miscellaneous)		
Godby High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Tallahassee	FL	2023	101,714	Football / Soccer		
Golden Valley High School	High School	RootZone 3D3 Trionic Blend	Stadium	Merced	CA	2023	88,000	Football / Soccer		
Grain Valley High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Grain Valley	MO	2023	123,603	Baseball		
Grayson County High School	High School	RootZone 3D3 Trionic Blend	Stadium	Independence	VA	2023	77,182	Football / Soccer		
Greene Township	Community	RootZone 3D3 Trionic Blend	Baseball / Softball Infield	Chambersburg	PA	2023	28,180	Baseball / Softball		
Greenville High School	High School	Rhino Blend	Stadium	Greenville	AL	2023	111,822	Football / Soccer		



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Gretna Soccer Complex	Private	RootZone 3DSF	Field 2	Gretna	NE	2023	81,760	Soccer		
Gretna Soccer Complex	Private	RootZone 3DSF	Field 1	Gretna	NE	2023	90,187	Soccer		
Grimes, City of	Community	RootZone 3D3 Trionic Blend	Grimes Sports Complex Pod 1	Grimes	IA	2023	183,726	Soccer		
Grimes, City of	Community	RootZone 3D3 Trionic Blend	Grimes Sports Complex Pod 5	Grimes	IA	2023	222,651	Baseball / Softball		
Grimes, City of	Community	RootZone 3D3 Trionic Blend	Grimes Sports Complex Pod 2	Grimes	IA	2023	196,732	Soccer		
Grimes, City of	Community	RootZone 3D3 Trionic Blend	Grimes Sports Complex Pod 6	Grimes	IA	2023	222,651	Baseball / Softball		
Grimes, City of	Community	RootZone 3D3 Trionic Blend	Grimes Sports Complex Pod 4	Grimes	IA	2023	222,651	Soccer		
Grimes, City of	Community	RootZone 3D3 Trionic Blend	Grimes Sports Complex Pod 3	Grimes	IA	2023	180,000	Soccer		
Gull Lake High School	High School	RootZone 3D3 Trionic Blend	Stadium	Richland	MI	2023	114,621	Football / Lacrosse / Soccer		
Gwynedd Mercy University	Division III	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Gwynedd Valley	PA	2023	152,510	Baseball		



Harford Community College	Community College	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield	Bel Air	MD	2023	28,805	Baseball		
Hartland High School	High School	RootZone 3D3 Trionic Blend	Stadium	Hartland	MI	2023	92,075	Football / Lacrosse / Soccer		
Harvard University	Division I	Poligras Platinum	Field Hockey Field	Boston	MA	2023	70,000	Field Hockey		
Harvest Preparatory School	High School	RootZone 3D3 Trionic Blend	Stadium	Canal Winchester	OH	2023	80,230	Football / Soccer		
Havre De Grace High School	High School	RootZone 3DSF	Stadium Field	Havre De Grace	MD	2023	98,185	Field Hockey / Football / Lacrosse / Soccer		
Highland Elementary	Elementary School	Rhino Blend	Multipurpose Field	Visalia	CA	2023	43,000	Baseball / Soccer		
Hillcrest High School	High School	RootZone 3D3 Trionic Blend	Stadium	Riverside	CA	2023	80,080	Football / Soccer		



Hillsborough High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Tampa	FL	2023	39,808	Softball		
Hillsdale College	Division II	ERA RootZone Diamond RBI / Rhino Blend / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Field	Hillsdale	MI	2023	140,976	Baseball		
Hobart High School	High School	RootZone 3D3 Trionic Blend	Stadium	Hobart	IN	2023	89,334	Football / Soccer		
Holy Ghost Prep School	High School	Rhino Blend	Soccer / Lacrosse Field	Bensalem	PA	2023	71,600	Lacrosse / Soccer		
Honesdale High School	High School	RootZone 3D3 Trionic Blend	Athletic Complex	Honesdale	PA	2023	174,000	Baseball / Field Hockey / Football / Soccer / Softball		



Horizon Middle School	Middle School	RootZone 3DSF	Stadium	Kearney	NE	2023	81,000	Football / Soccer		
Horizon Middle School District 49	Middle School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS	Softball Field	Colorado Springs	CO	2023	25,527	Softball		
Huntersville Athletic Park	Community	RootZone 3D3 Trionic Blend / RootZone 3D3 Trionic Blend HD	Field 4	Huntersville	NC	2023	30,794	Baseball		
Huntersville Athletic Park	Community	RootZone 3D3 Trionic Blend / RootZone 3D3 Trionic Blend HD	Field 3	Huntersville	NC	2023	27,479	Baseball		
Huntersville Athletic Park	Community	RootZone 3D3 Trionic Blend / RootZone 3D3 Trionic Blend HD	Field 2	Huntersville	NC	2023	15,263	Baseball		



Huntersville Athletic Park	Community	RootZone 3D3 Trionic Blend / RootZone 3D3 Trionic Blend HD	Field 1	Huntersville	NC	2023	15,643	Baseball		
IMG Academy	High School	RootZone 3D3 Trionic Blend	Stadium Field	Bradenton	FL	2023	88,600	Football / Lacrosse / Soccer		
IMG Academy	High School	RootZone 3D3 Trionic Blend	Lacrosse Practice Field	Bradenton	FL	2023	88,600	Lacrosse		
IMG Academy	High School	RootZone 3D3 Trionic Blend	Football Practice Field	Bradenton	FL	2023	88,600	Football		
Inglewood USD	High School	RootZone 3D3 Trionic Blend	Sentinel Field	Inglewood	CA	2023	82,499	Football / Soccer		
Iowa Central Community College	Community College	RootZone 3D3 Trionic Blend	Stadium	Fort Dodge	IA	2023	142,000	Football / Rugby / Soccer		
Iowa, University of	Division I	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Field	Coralville	IA	2023	57,033	Softball	Renee Gillispie	319.335.9259



Islands High School	High School	Rhino Blend	Stadium	Savannah	GA	2023	81,844	Football / Lacrosse / Soccer		
Issaquah High School	High School	RootZone 3D3 Trionic Blend	Stadium	Issaquah	WA	2023	77,270	Football / Lacrosse / Soccer		
Jackson County Parks and Recreation	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Frank White Jr. Softball Complex Field #5	Lees Summit	MO	2023	19,140	Softball		
Jackson County Parks and Recreation	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Frank White Jr. Softball Complex Field #4	Lees Summit	MO	2023	19,140	Softball		



Jackson County Parks and Recreation	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Frank White Jr. Softball Complex Field #3	Lees Summit	MO	2023	19,140	Softball		
Jackson County Parks and Recreation	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Frank White Jr. Softball Complex Field #2	Lees Summit	MO	2023	19,140	Softball		
Jackson County Parks and Recreation	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Frank White Jr. Softball Complex Field #1	Lees Summit	MO	2023	19,140	Softball		



Jefferson City High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	Jefferson City	MO	2023	25,656	Baseball		
Jefferson County High School	High School	RootZone 3D3 Trionic Blend	Stadium	Louisville	GA	2023	109,198	Football / Soccer		
Joint Forces Training Base - Los Alamitos	Military	RootZone 3D3 Trionic Blend	Multipurpose	Signal Hill	CA	2023	55,000	Multipurpose		
Jonesboro High School	High School	Rhino Blend / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Jonesboro	GA	2023	40,000	Softball		



Joplin High School	High School	ERA RootZone Diamond OPS / Rhino Blend / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Joplin	MO	2023	129,076	Baseball		
JP Stevens High School	High School	RootZone 3D3 Trionic Blend	Stadium	Edison	NJ	2023	117,000	Football / Lacrosse / Soccer		
JW North High School	High School	RootZone 3D3 Trionic Blend	Stadium	Riverside	CA	2023	79,000	Football / Soccer		
Kamiak High School	High School	RootZone Diamond-i RBI	Softball Infield	Mukilteo	WA	2023	11,037	Softball		
Kamiak High School	High School	RootZone Diamond Blend OPS / RootZone Diamond-i RBI	Baseball Infield	Mukilteo	WA	2023	26,022	Baseball		
Kane Area High School	High School	Rhino Blend	Stadium	Kane	PA	2023	93,330	Football / Soccer		
Kansas, University of	Division I	PGPN	Anderson Indoor	Lawrence	KS	2023	5,581	Multipurpose		



Kansas, University of	Division I	Rhino Blend	Crossing at KU	Lawrence	KS	2023	188,000	Football / Intramurals / Lacrosse / Multipurpose / Soccer		
Key West, City of	Community	Rhino Blend	Clayton Sterling Baseball Complex - Field C	Key West	FL	2023	35,501	Baseball		
Key West, City of	Community	Rhino Blend	Clayton Sterling Baseball Complex - Field D	Key West	FL	2023	39,537	Baseball		
Key West, City of	Community	Rhino Blend	Clayton Sterling Baseball Complex - Field A	Key West	FL	2023	75,525	Baseball		
Key West, City of	Community	PGPN	Clayton Sterling Baseball Complex - Batting Cages	Key West	FL	2023	4,800	Baseball (Miscellaneous)		
Key West, City of	Community	Rhino Blend	Clayton Sterling Baseball Complex - Field B	Key West	FL	2023	21,219	Baseball		
Kimball Elementary	Elementary School	Rhino Blend	Multipurpose	Seattle	WA	2023	7,494	Multipurpose / Soccer		



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Kinder Farm Park - Anne Arundel County	Community	RootZone 3D3 Trionic Blend	North & South Field	Millersville	MD	2023	181,653	Field Hockey / Football / Lacrosse / Soccer		
La Mirada High School	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Practice Infield	Manhattan Beach	CA	2023	35,000	Baseball		
La Porte High School	High School	RootZone 3D3 Trionic Blend	Practice Field	La Porte	TX	2023	80,692	Football / Soccer		
La Salle College High School	High School	Rhino Blend	Soccer & Baseball Field	Glenside	PA	2023	136,900	Baseball / Soccer		
La Salle College Preparatory High School	High School	RootZone 3D3 Trionic Blend	Stadium	Pasadena	CA	2023	79,755	Football / Soccer		
Lake Washington High School	High School	RootZone 3D3 Trionic Blend	Stadium	Kirkland	WA	2023	125,416	Football / Lacrosse / Soccer		
Lakota Tech High School	High School	Rhino Blend	Stadium	Pine Ridge	SD	2023	90,591	Football		
Lawndale High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lawndale	CA	2023	77,589	Football / Soccer		
Lay's Replay Mini Pitch Soccer	Private	RootZone 3D3 Trionic Blend	Soccer	Santa Ana	CA	2023	11,223	Soccer		



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Lenoir-Rhyne University	Division II	RootZone 3D3 Trionic Blend	Stadium	Hickory	NC	2023	96,000	Football		
Liberty Christian Academy	High School	RootZone 3D3 Trionic Blend	Stadium	Lynchburg	VA	2023	95,779	Football / Soccer		
Lincoln Christian School	High School	RootZone 3D3 Trionic Decade	Stadium	Tulsa	OK	2023	78,660	Football		
Lincoln High School	High School	Rhino SF	Stadium	Portland	OR	2023	108,337	Football / Lacrosse / Soccer		
Llano High School	High School	RootZone 3D3 Trionic Blend	Stadium	Llano	TX	2023	77,520	Football		
Lowndes High School	High School	RootZone 3D3 Trionic Blend HD	Indoor Facility	Valdosta	GA	2023	75,467	Football / Soccer		
Lowndes High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Valdosta	GA	2023	86,864	Football / Soccer		
Lubbock Christian High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lubbock	TX	2023	92,135	Football		
Lubbock ISD - Plains Capital Park Stadium	High School	RootZone 3D3 Trionic Blend	Lowrey Field	Lubbock	TX	2023	73,214	Football / Soccer		
Lucy Craft Laney High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Augusta	GA	2023	97,820	Football / Soccer		



Ludington Schools	High School	Rhino Blend	Oriole Field	Ludington	MI	2023	103,000	Football / Soccer		
Lyndhurst Township	Community	Rhino Blend	Multipurpose Field	Lyndhurst	NJ	2023	160,564	Baseball / Soccer / Softball		
Maine, University of	Division I	AstroTurf 12	Field Hockey Complex	Orono	ME	2023	67,000	Field Hockey		
Manatee High School	High School	Rhino Blend	Stadium	Bradenton	FL	2023	82,643	Football / Soccer		
Mankato, City of	Community	Rhino SF HR	Thomas Park	Mankato	MN	2023	50,731	Softball		
Mar Vista Gardens - Nike Pitch	Community	RootZone 3D3 Trionic Blend	Soccer Field	Signal Hill	CA	2023	6,600	Soccer		
Marana High School	High School	RootZone 3D3 Trionic Blend	Stadium	Tucson	AZ	2023	76,854	Football / Soccer		
Marlin High School	High School	RootZone 3D3 Trionic Blend	Legion Field	Marlin	TX	2023	90,062	Football / Soccer		
Marshall University	Division I	ERA RootZone Diamond RBI / Rhino Blend / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Field	Huntington	WV	2023	134,733	Baseball	Andrew Brown	304.696.4304
Mater Academy	High School	RootZone 3D3 Trionic Blend	Football Multipurpose	Hialeah	FL	2023	61,016	Football		



Maumelle High School	High School	Rhino SF	Indoor	Maumelle	AR	2023	33,119	Football		
Maumelle High School	High School	Rhino SF	Soccer Field	Maumelle	AR	2023	64,960	Soccer		
Maumelle High School	High School	Rhino SF HR	Softball Infield	Maumelle	AR	2023	14,135	Softball		
Maumelle High School	High School	Rhino SF HR	Baseball Infield	Maumelle	AR	2023	36,092	Baseball		
Meadowbrook High School	High School	RootZone 3DSF	Stadium	Byesville	OH	2023	94,684	Football		
Meadows School, The	High School	RootZone 3D3 Trionic Blend	Stadium	Las Vegas	NV	2023	89,000	Football / Soccer	Bret Peterson	702.249.5333
Melissa ISD	High School	RootZone 3D3 Trionic Blend	Kenny Deel Stadium	Melissa	TX	2023	101,507	Football / Soccer		
Mesa Del Sol	Community	Rhino Blend	4 Soccer Fields	Albuquerque	NM	2023	408,351			
Mesa High School	High School	RootZone 3D3 Trionic Blend	Agility Field	Mesa	AZ	2023	20,939	Multipurpose		
Michigan, University of	Division I	Rhino Blend	Hubbard Road Fields	Ann Arbor	MI	2023	208,000	Intramurals / Multipurpose		
Microsoft Campus	Private	PGPN / Rhino SF	Cricket Field	Redmond	WA	2023	145,880	Cricket		
Microsoft Campus	Private	Rhino SF	Softball Infield	Redmond	WA	2023	13,529	Softball		
Mid Buchanan High School	High School	ERA RootZone Diamond OPS / Rhino SF HR / RootZone Diamond-i OPS	Baseball Infield	Faucett	MO	2023	30,000	Baseball		
Mid Buchanan High School	High School	Rhino Blend	Stadium	Faucett	MO	2023	97,718	Football / Soccer		



Mid Valley School District	High School	RootZone 3D3 Trionic Blend	Softball Field	Scranton	PA	2023	43,870	Softball		
Mid Valley School District	High School	RootZone 3D3 Trionic Blend	Stadium	Scranton	PA	2023	94,598	Field Hockey / Football / Lacrosse / Soccer		
Mid Valley School District	High School	RootZone 3D3 Trionic Blend	Baseball Field	Scranton	PA	2023	101,749	Baseball		
Minot High School	High School	Rhino Blend	Stadium	Minot	ND	2023	116,000	Football / Soccer		
Missouri, University of	Division I	RootZone 3D3 Trionic Blend	Indoor	Columbia	MO	2023	86,885	Football		
MOC-Floyd Valley High School	High School	Rhino SF	Stadium	Alton	IA	2023	103,930	Football / Soccer		
MOC-Floyd Valley High School	High School	Rhino SF HR	Softball Field	Alton	IA	2023	13,657	Softball		
MOC-Floyd Valley High School	High School	Rhino SF HR	Baseball Field	Alton	IA	2023	29,352	Baseball		
Montana State University Billings	Division II	LigaTurf RootZone 3DM	Soccer / Lacrosse Field	Billings	MT	2023	91,200	Lacrosse / Soccer		
Montgomery, City of	Division I	RootZone 3D3 Trionic Blend	Cramton Bowl	Montgomery	AL	2023	101,175	Football		
Moon Valley High School	High School	RootZone 3D3 Trionic Blend	Stadium	Phoenix	AZ	2023	91,548	Football / Soccer		



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Morenci High School	High School	RootZone 3D3 Trionic Blend	Stadium	Morenci	AZ	2023	94,950	Football / Soccer		
Morgan High School	High School	RootZone 3D3 Trionic Blend	Stadium	Mcconnelsville	OH	2023	79,000	Football / Soccer		
Mott High School	High School	Rhino Blend	Stadium	Waterford	MI	2023	108,000	Football / Soccer		
Mountain Brook High School	High School	Rhino Blend	Stadium	Birmingham	AL	2023	75,301	Football / Lacrosse		
Mountain View High School	High School	RootZone 3D3 Trionic Blend	Stadium	Tucson	AZ	2023	87,577	Football / Soccer		
Mynatt Park	Community	RootZone 3D3 Trionic Blend	Softball Field	Gatlinburg TN	TN	2023	37,167	Softball		
Newark High School	High School	Diamond Series HR	Baseball Field	Newark	OH	2023	30,674	Baseball	Jeremy Levan	937-605-2535
Newport Hills Park	Community	RootZone 3D3 Trionic Blend	Soccer Field	Bellevue	WA	2023	70,302	Soccer		
Newport Hills Park	Community	RootZone 3D3 Trionic Blend	Softball Infield	Bellevue	WA	2023	11,232	Softball		
Newton County Schools	High School	RootZone 3D3 Trionic Blend HD	Homer Sharp Stadium	Covington	GA	2023	88,965	Football / Soccer		
Nicolet High School	High School	RootZone 3D3 Trionic Blend	Stadium	Milwaukee	WI	2023	109,000	Football / Soccer		



Nicolet Union High School	High School	RootZone 3D3 Trionic Blend	Soccer Field	Milwaukee	WI	2023	99,111	Soccer		
Norristown Area School District	High School	Rhino Blend	Stadium	Norristown	PA	2023	89,159	Field Hockey / Football / Lacrosse / Soccer		
North Broward Prep	High School	RootZone 3D3 Trionic Blend HD	Stadium	Coconut Creek	FL	2023	102,715	Football / Lacrosse / Soccer		
North County High School	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Glen Burnie	MD	2023	89,856	Field Hockey / Lacrosse / Soccer		
North Oldham County High School	High School	Rhino Blend	Stadium	Goshen	KY	2023	140,000	Football / Soccer		
North Reading High School	High School	Rhino Blend	Stadium	North Reading	MA	2023	94,200	Field Hockey / Football / Lacrosse / Soccer		
NorthPointe Christian High School	High School	Rhino Blend	Stadium	Grand Rapids	MI	2023	94,857	Football / Soccer		
Northwest Catholic High School	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Canton	MA	2023	130,504	Baseball / Football / Soccer		



Northwest Classen High School	High School	PGPN	Tennis Area	Edmond	OK	2023	11,830	Multipurpose		
Northwest Whitfield High School	High School	RootZone 3D3 Trionic Blend	Stadium	Tunnel Hill	GA	2023	100,175	Football / Soccer		
Northwestern University	Division I	System 90	Field Hockey Field	Evanston	IL	2023	74,515	Field Hockey		
Oak Mountain High School	High School	Rhino Blend	Heardmont Stadium	Birmingham	AL	2023	93,732	Football / Soccer		
Oceanside High School	High School	RootZone 3D3 Trionic Blend	Stadium	Oceanside	CA	2023	85,000	Football / Soccer		
Ohio State University, The	Division I	Diamond Series / RootZone Diamond Blend RBI	Bill Davis Stadium	Columbus	OH	2023	122,481	Baseball	Brian Gimbel	614-206-5964
Oklahoma, University of	Division I	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	L. Dale Mitchell Park	Norman	OK	2023	134,851	Baseball	Skip Johnson	405.325.8200
Oldham County High School	High School	Rhino Blend	Stadium	La Grange	KY	2023	94,000	Football / Soccer		
Oregon, University of	Division I	RootZone 3D3 Trionic Blend	Recreation Field 3	Eugene	OR	2023	55,228	Intramurals / Lacrosse / Soccer		



Oregon, University of	Division I	RootZone 3D3 Trionic Blend	Recreation Field 4	Eugene	OR	2023	56,710	Intramurals / Lacrosse / Soccer		
Overlake School	High School	RootZone 3D3 Trionic Blend	Soccer / Lacrosse Field	Redmond	WA	2023	75,162	Lacrosse / Soccer		
Palmetto High School	High School	Rhino Blend	Stadium	Bradenton	FL	2023	93,444	Football / Soccer		
Parkersburg, City of	Community	Rhino SF	Bennett Stump Baseball Field	Parkersburg	WV	2023	30,800	Baseball		
Pell City High School	High School	Rhino Blend	Stadium	Pell City	AL	2023	85,747	Football / Soccer		
Penn Wood High School	High School	Rhino Blend	Kerr Field	Exton	PA	2023	78,412	Football / Soccer		
Philips Academy	High School	Rhino SF	Stadium	Woburn	MA	2023	87,519	Field Hockey / Football / Lacrosse		
Pine Township	Community	RootZone 3D3 Trionic Blend	Multipurpose Fields	Wexford	PA	2023	167,291	Field Hockey / Football / Lacrosse / Soccer		
Pinkneyville Middle School	Middle School	Rhino Blend	Multipurpose Field	Peachtree Corners	GA	2023	75,587	Football / Soccer		



Pinnacle Sports Complex	Private	LigaTurf RootZone Blend 1.5"	Soccer Fields	Medina	OH	2023	136,556	Soccer		
Pittsburgh Riverhounds	Professional	Ligaturf RS Pro II	Soccer	South Park	PA	2023	212,000	Soccer		
Port St. Joe High School	High School	LigaTurf RootZone Blend 1.5"	Soccer Field	Port Saint Joe	FL	2023	84,714	Soccer		
Portales High School	High School	ERA RootZone Diamond OPS / Rhino Blend / RootZone Diamond-i OPS	Softball Field	Portales	NM	2023	61,158	Softball		
Portsmouth High School	High School	Rhino Blend	Stadium	Portsmouth	NH	2023	85,944	Field Hockey / Football / Lacrosse / Soccer		
Prairieville High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Prairieville	LA	2023	81,966	Baseball		



Prairieville High School	High School	RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Prairieville	LA	2023	14,646	Softball		
Princeton University	Division I	Ligaturf RootZone 3D3 Blend	Soccer Practice Field	Princeton	NJ	2023	100,450	Soccer		
Princeton University	Division I	AstroTurf 12 JG	Bedford Field	Princeton	NJ	2023	69,300	Field Hockey		
Pueblo West High School	High School	RootZone 3D3 Trionic Blend	Stadium	Pueblo	CO	2023	89,618	Football / Soccer		
Quest Academy	High School	Rhino Blend	Multipurpose	Las Vegas	NV	2023	19,425	Multipurpose		
Rains High School	High School	RootZone 3D3 Trionic Blend	Stadium	Emory	TX	2023	86,540	Football		
Redmond, City of	Community	RootZone 3D3 Trionic Blend	Grass Lawn Park Field #2	Redmond	WA	2023	105,760	Cricket / Soccer / Softball		
Regis Jesuit High School	High School	RootZone 3D3 Trionic Blend	Stadium	Aurora	CO	2023	91,510	Field Hockey / Football / Lacrosse / Soccer		



Riesel High School	High School	ERA RootZone Diamond OPS / Rhino Blend / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Riesel	TX	2023	107,585	Baseball		
Ripken Experience	Private	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Wrigley Field	Aberdeen	MD	2023	49,735	Baseball		
Ripken Experience	Private	Rhino SF HR	Polo Infield	Myrtle Beach	SC	2023	33,305	Baseball		
Ripken Experience	Private	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Memorial Stadium	Aberdeen	MD	2023	54,138	Baseball		
Ripken Experience	Private	Rhino SF HR	Crosley Field	Myrtle Beach	SC	2023	31,275	Baseball		



Ripken Experience	Private	Rhino SF HR	Myrtle Beach - Westside	Myrtle Beach	SC	2023	45,122	Baseball		
Ripken Experience	Private	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Fenway Park	Aberdeen	MD	2023	46,799	Baseball		
Riverside City College	Community College	RootZone 3D3 Trionic Blend	Stadium	Riverside	CA	2023	74,850	Football		
Roanoke City Soccer	Community	RootZone 3D3 Trionic Blend	Fairplay Park	Roanoke	TX	2023	47,400	Soccer		
Robinson High School	High School	RootZone 3D3 Trionic Blend	Stadium	Waco	TX	2023	95,595	Football / Soccer		
Rock Hill High School	High School	RootZone 3D3 Trionic Blend	Baseball Outfield	Ironton	OH	2023	81,000	Baseball		
Rock Hill High School	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield	Ironton	OH	2023	131,500	Baseball	Barry Litteral	740.532.7012



Rocky Top Sports World	Community	RootZone 3D3 Trionic Blend	Field 2	Gatlinburg	TN	2023	92,915	Football / Soccer / Softball		
Runyon Sports Complex	Community	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield	Pueblo	CO	2023	29,829	Baseball		
Russell High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	Russell	KS	2023	30,000	Baseball		
Sacramento City College	Community College	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Sacramento	CA	2023	45,725	Softball		



Sacred Heart Preparatory School	High School	RootZone 3D3 Trionic Blend	Soccer / Lacrosse Field	Atherton	CA	2023	87,716	Lacrosse / Soccer		
Saint Paul's School	High School	Ligaturf RootZone 3D3 Blend	Stadium	Covington	LA	2023	99,490	Football / Lacrosse / Soccer		
Santa Fe Catholic High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lakeland	FL	2023	95,290	Football / Soccer		
Santa Ynez High School	High School	RootZone 3D3 Trionic Blend	Stadium	Santa Ynez	CA	2023	87,474	Football / Soccer		
Saugatuck High School	High School	RootZone 3D3 Trionic Blend	Stadium	Saugatuck	MI	2023	92,830	Football / Soccer		
Savannah High School	High School	Rhino Blend	Stadium	Savannah	GA	2023	81,845	Football / Lacrosse / Soccer		
Seamark Ranch	Private	Rhino SF HR	Softball Field	Green Cove Springs	FL	2023	11,643	Softball		
Seattle Parks & Recreation	Community	Rhino SF	Mickey Merriam Field 5	Seattle	WA	2023	116,025	Rugby / Ultimate Frisbee		
Seattle Parks and Recreation	Community	Rhino SF	Montlake Playfield	Seattle	WA	2023	72,735	Football / Lacrosse		
Sequoyah High School	High School	RootZone 3D3 Trionic Blend	Stadium	Tahlequah	OK	2023	86,597	Football		



Sewickley Academy	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	Sewickley	PA	2023	38,000	Baseball		
Shikellamy School District	High School	Rhino Blend	Stadium	Sunbury	PA	2023	110,270	Field Hockey / Football / Soccer		
Sierra Canyon Lower School	Elementary School	Rhino Blend / RootZone Diamond-i OPS	Multipurpose Field	Chatsworth	CA	2023	74,512	Football / Soccer / Softball		
Sierra Elementary School	Elementary School	RootZone 3D3 Trionic Blend	Multipurpose	Alamorgordo	NM	2023	23,281	Multipurpose		
Soccer Center	Private	RootZone 3D3 Trionic Blend	Soccer Field	Exton	PA	2023	77,443	Soccer		
Somerset Academy	High School	Rhino SF	Stadium	Homestead	FL	2023	95,340	Football / Soccer		
South Pasadena High School	High School	RootZone 3D3 Trionic Blend	Stadium	South Pasadena	CA	2023	79,920	Football / Soccer		
Southeast Whitfield High School	High School	RootZone 3D3 Trionic Blend	Stadium	Dalton	GA	2023	93,495	Football / Soccer		



Southern Boone County High School	High School	RootZone 3D3 Trionic Blend	Stadium	Ashland	MO	2023	99,096	Football / Soccer		
Southmoore High School	High School	RootZone 3D3 Trionic Blend	Stadium	Moore	OK	2023	95,355	Football / Soccer		
Spokane Public Schools	High School	RootZone 3D3 Trionic Blend	Spokane Stadium	Spokane	WA	2023	98,250	Multipurpose		
Sportport International	Private	AstroTurf 12	Field Hockey	Maryland Heights	MO	2023	69,610	Field Hockey		
Sports World	Private	Rhino SF	Soccer Fields	East Windsor	CT	2023	73,467	Soccer		
Springfield High School	High School	Rhino Blend	Stadium	New Middletown	OH	2023	93,935	Football / Soccer		
Springside Chestnut Hill Academy	High School	RootZone 3D3 Trionic Blend	Auxiliary Field	Philadelphia	PA	2023	95,000	Field Hockey / Lacrosse / Soccer		
Springside Chestnut Hill Academy	High School	RootZone 3D3 Trionic Blend	Stadium Field	Wyndmoor	PA	2023	118,000	Football / Lacrosse / Soccer		
St. Luke School	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Seattle	WA	2023	56,516	Baseball / Soccer		
St. Patrick Catholic School	High School	RootZone 3D3 Trionic Blend	Soccer	Tacoma	WA	2023	6,670	Soccer		



Stetson University	Division I	RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Melching Field	Deland	FL	2023	18,390	Baseball (Miscellaneous)		
Storm Lake	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	Storm Lake	IA	2023	46,000	Baseball		
Sunnyslope High School	High School	RootZone Diamond Blend OPS	Batting Cages	Phoenix	AZ	2023	6,006	Baseball (Miscellaneous)		
Susquehanna University	Division III	RootZone 3D3 Trionic Blend	Stadium	Selinsgrove	PA	2023	93,471	Football		
Swift Middle School	Middle School	RootZone 3D3 Trionic Blend	Multipurpose Field	Watertown	CT	2023	86,940	Field Hockey / Lacrosse / Soccer		
Tampa Bay Tech High School	High School	RootZone 3D3 Trionic Blend	Stadium	Tampa	FL	2023	92,975	Football / Soccer		
Taylor University	NAIA	RootZone 3D3 Trionic Blend	Practice Field	Upland	IN	2023	85,350	Football / Lacrosse / Soccer		



Tecumseh High School	High School	RootZone 3D3 Trionic Blend	Stadium	Tecumseh	MI	2023	109,000	Football / Lacrosse / Soccer		
Temecula Valley High School	High School	RootZone 3D3 Trionic Blend	Stadium	Temecula	CA	2023	83,000	Field Hockey / Football / Lacrosse / Soccer		
Tennessee, University of	Division I	RootZone 3D3 Trionic Blend	RecSports Field Complex - Sutherland Field 4	Knoxville	TN	2023	88,275	Intramurals / Lacrosse / Soccer		
Tennessee, University of	Division I	RootZone 3D3 Trionic Blend	RecSports Field Complex - Sutherland Field 3	Knoxville	TN	2023	89,309	Intramurals / Lacrosse / Soccer		
Terrell High School	High School	RootZone 3D3 Trionic Blend	Stadium	Terrell	TX	2023	82,949	Football / Soccer		
Texas A&M University	Division I	PGPN	Bright Building	College Station	TX	2023	25,000	Football (Miscellaneous)		
Texas A&M University	Division I	RootZone 3D3 Trionic Blend	Indoor Facility	College Station	TX	2023	133,467	Football		
Texas Tech University	Division I	RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Field	Lubbock	TX	2023	37,521	Softball		



The Athletic Campus	Private	Rhino SF	Indoor Facility	Rochester	NY	2023	35,763	Multipurpose		
The Game Sports Complex	Private	RootZone 3D3 Trionic Blend	Field 1	Fairport	NY	2023	36,160	Multipurpose		
The Game Sports Complex	Private	RootZone 3D3 Trionic Blend	Field 2	Fairport	NY	2023	36,160	Lacrosse / Soccer		
The Sports Academy	Private	Rhino Blend	Soccer Fields	New Baltimore	MI	2023	44,539	Soccer		
Thunderbird High School	High School	RootZone 3D3 Trionic Blend	Stadium	Phoenix	AZ	2023	96,891	Football / Soccer		
TOCA Indoor Soccer	Private	Rhino Blend	4 Fields	Wixom	MI	2023	159,600	Soccer		
Tower Hill School	High School	Poligras Platinum	Richardson Field	Wilmington	DE	2023	69,630	Field Hockey / Lacrosse		
Traverse City Central High School	High School	Rhino Blend	Stadium	Traverse City	MI	2023	94,000	Football / Lacrosse / Soccer		
Traverse City West Senior High School	High School	Rhino Blend	Stadium	Traverse City	MI	2023	94,000	Football / Lacrosse / Soccer		
Triview Metropolitan District	Community	RootZone 3D3 Trionic Blend	Sanctuary Pointe	Monument	CO	2023	121,227	Lacrosse / Soccer		
Tufts University	Division III	RootZone 3D3 Trionic Blend	Alumni Stadium - Bello Field	Medford	MA	2023	102,000	Lacrosse / Soccer		
Tyrone Area School District	High School	RootZone 3D3 Trionic Blend	Stadium	Tyrone	PA	2023	81,148	Football / Soccer		



Union City High School	High School	Rhino Blend	Roosevelt Stadium	Union City	NJ	2023	121,718	Baseball / Football		
United Sports Training Center	Private	Rhino Blend	Soccer Field	Downingtown	PA	2023	79,000	Soccer		
United Sports Training Center	Private	Rhino Blend	Soccer Fields	Downingtown	PA	2023	166,351	Soccer		
University High School	High School	RootZone 3D3 Trionic Blend	Stadium	Greeley	CO	2023	101,751	Football / Soccer		
USA Field Hockey - UNC Charlotte Campus	Professional	Poligras Paris GT	Field Hockey Field	Charlotte	NC	2023	80,000	Field Hockey		
Valencia High School	High School	RootZone 3D3 Trionic Blend	Stadium	Valencia	CA	2023	89,210	Football / Lacrosse / Soccer		
Vermont, University of	Division I	Poligras Platinum	Moulton Winder Field at Archie Post Athletic Complex	Burlington	VT	2023	95,748	Field Hockey		
Virginia Beach Field House	Private	Rhino SF	Field 4	Virginia Beach	VA	2023	16,256	Soccer		
Virginia Gardens, Village of	Community	Rhino SF HR	Baseball Field	Miami	FL	2023	92,000	Baseball		



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Virginia Tech	Division I	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	English Field	Blacksburg	VA	2023	139,644	Baseball	John Szefc	540.828.3244
Virginia Tech	Division I	LigaTurf RootZone 3DM	Mosley Field	Blacksburg	VA	2023	82,480	Lacrosse / Soccer		
Vista Ridge High School	High School	RootZone 3D3 Trionic Blend	Stadium	Colorado Springs	CO	2023	91,300	Football / Soccer		
Wake Forest University	Division I	Poligras Platinum	Kentner Stadium	Winston-Salem	NC	2023	70,889	Field Hockey		
Warren County High School	High School	Rhino Blend	Stadium	Warrenton	GA	2023	93,910	Football		
Warren High School	High School	RootZone 3D3 Trionic Blend	Stadium	Downey	CA	2023	89,000	Football / Soccer		
Washington & Lee University	Division III	AstroTurf 12	Field Hockey	Lexington	VA	2023	94,500	Field Hockey		
Washington High School	High School	RootZone 3D3 Trionic Blend	Stadium	Phoenix	AZ	2023	89,008	Football / Soccer		
Washington State University	Division I	RootZone 3D3 Trionic Blend	Rogers Practice Fields	Pullman	WA	2023	109,407	Football		
Washington State University	Division I	RootZone 3D3 Trionic Blend	Valley Road Playfields	Pullman	WA	2023	383,914	Intramurals / Multipurpose		



Washington State University	Division I	RootZone 3D3 Trionic Blend	Grimes Way Field	Pullman	WA	2023	72,848	Intramurals / Multipurpose		
Washington, University of	Division I	RootZone 3D3 Trionic Blend HD	Softball Perimeter	Seattle	WA	2023	7,274	Softball (Miscellaneous)		
Watertown High School	High School	RootZone 3D3 Trionic Blend	Stadium	Canton	MA	2023	92,688	Field Hockey / Football / Lacrosse / Soccer		
WC Eagles Field Hockey	Private	Poligras Platinum	Field Hockey	Spring City	PA	2023	66,006	Field Hockey		
West Platte High School	High School	ERA RootZone Diamond OPS / RootZone Diamond-i OPS	Softball Infield	Weston	MO	2023	15,000	Softball		
West Springfield High School	High School	RootZone 3D3 Trionic Blend	Stadium	West Springfield	MA	2023	94,000	Field Hockey / Football / Lacrosse / Soccer		



Westmoore High School	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Field	Oklahoma City	OK	2023	51,062	Softball		
Westside High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Augusta	GA	2023	91,888	Football / Soccer		
Wheeling Park High School	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Field	Wheeling	WV	2023	108,000	Baseball		
Whitley County High School	High School	Rhino Blend	Stadium	Williamsburg	KY	2023	94,024	Football / Soccer		
Wilkes-Barre Area High School	High School	RootZone 3D3 Trionic Blend	Multipurpose Fields	Wilkes Barre	PA	2023	162,812	Field Hockey / Lacrosse / Soccer / Softball		
Willow Canyon High School	High School	RootZone 3D3 Trionic Blend	Stadium	Surprise	AZ	2023	85,957	Football / Soccer		



Windermere Prep School	High School	RootZone 3D3 Trionic Blend	Stadium	Windermere	FL	2023	95,250	Football / Lacrosse / Soccer		
Windsor High School	High School	RootZone 3D3 Trionic Blend	Stadium	Windsor	CO	2023	76,875	Football / Lacrosse / Soccer		
Wynne High School	High School	Rhino Blend	Stadium	Wynne	AR	2023	101,925	Football / Soccer		
Wyoming Public Schools	High School	Rhino Blend	Stadium	Wyoming	MI	2023	96,000	Football / Soccer		
Adams State University	Division II	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Alamosa	CO	2022	55,224	Softball		
Adrian College	Division III	ERA RootZone Diamond OPS / Rhino Blend / RootZone Diamond-i OPS	Nicolay Field	Adrian	MI	2022	121,000	Baseball		
Akron, University of	Division I	Rhino Blend	Infocision Stadium	Akron	OH	2022	101,800	Football		



Alderson Broaddus University	Division II	RootZone 3D3 Trionic Blend	Stadium	Philippi	WV	2022	86,903	Football / Lacrosse / Soccer		
Alma College	Division III	Rhino Blend	Stadium	Alma	MI	2022	98,480	Football / Lacrosse		
Anne Arundel County Public Schools - Meade High School	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Pasedena	MD	2022	89,856	Field Hockey / Lacrosse / Soccer		
Apollo High School	High School	RootZone 3D3 Trionic Blend	Stadium	Glendale	AZ	2022	95,125	Football / Soccer		
Appling High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Baxley	GA	2022	84,686	Football / Soccer		
Ark Sportsplex	Private	Rhino SF HR	Championship Field	New Kent	VA	2022	77,170	Baseball		
Atwater High School	High School	RootZone 3D3 Trionic Blend	Stadium	Atwater	CA	2022	96,880	Football / Soccer		
Auburn University	Division I	Rhino SF HR	Softball Perimeter	Auburn	AL	2022	11,350	Softball (Miscellaneous)		
Auburn University	Division I	Rhino Blend	Indoor Performance Center	Auburn	AL	2022	80,806	Football		
Auburn, City of	Community	RootZone 3D3 Trionic Blend	Soccer Complex Field #9	Auburn	AL	2022	89,668	Soccer		



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Auburn, City of	Community	RootZone 3D3 Trionic Blend	Soccer Complex Field #10	Auburn	AL	2022	89,668	Lacrosse / Soccer		
Augustana College	Division III	Ligaturf RootZone 3D3 Blend	Thorsen-Lucken Stadium	Rock Island	IL	2022	104,000	Lacrosse / Soccer	Josh Becker	309-794-7495
Bainbridge High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Bainbridge Island	WA	2022	78,200	Football / Lacrosse / Soccer		
Ballpark of Palm Beaches	Professional	PGPN	Batting Cages	West Palm Beach	FL	2022	3,200	Baseball (Miscellaneous)		
Barstow School	High School	RootZone 3D3 Trionic Blend	Soccer Field	Kansas City	MO	2022	104,662	Soccer		
Bavarian United Soccer Club	Private	Ligaturf RootZone 3D3 Blend	Ramon Field	Glendale	WI	2022	70,460	Soccer	Daniel Lee	4144674954
Bear River Recreation & Park District	Community	RootZone 3D3 Trionic Blend	Gary Clarke Field	Grass Valley	CA	2022	77,000	Baseball / Soccer		
Beaumont High School	High School	RootZone 3D3 Trionic Blend	Stadium	Beaumont	CA	2022	78,337	Football / Soccer		
Belleville Indoor	Private	Rhino SF	Indoor Facility	Belleville	IL	2022	18,321	Multipurpose		
Belmont University	Division I	Ligaturf RootZone 3D3 Blend	Soccer Field	Nashville	TN	2022	103,197	Soccer		



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Berkmar High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lilburn	GA	2022	92,776	Football / Lacrosse / Soccer		
Bickle-Schmidt Sports Complex	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Field 5	Hays	KS	2022	21,173	Softball		
Bickle-Schmidt Sports Complex	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Field 4	Hays	KS	2022	17,238	Softball		
Bickle-Schmidt Sports Complex	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Field 2	Hays	KS	2022	17,238	Softball		



Bickle-Schmidt Sports Complex	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Field 1	Hays	KS	2022	17,238	Softball		
Bickle-Schmidt Sports Complex	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Field 3	Hays	KS	2022	17,238	Softball		
Bickle-Schmidt Sports Complex	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Field 8	Hays	KS	2022	25,672	Softball		



Bickle-Schmidt Sports Complex	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Field 7	Hays	KS	2022	25,672	Softball		
Bickle-Schmidt Sports Complex	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Field 6	Hays	KS	2022	21,173	Softball		
Blair High School	High School	Rhino Blend	Stadium	Blair	NE	2022	88,742	Football / Soccer		
Boca Raton High School	High School	RootZone 3D3 Trionic Blend HD	Stadium Field	Boca Raton	FL	2022	101,910	Football / Lacrosse / Soccer	Valerie Miyares	
Bonham High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Bonham	TX	2022	97,505	Football / Soccer		



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Bonham High School	High School	ERA RootZone Diamond RBI / Rhino Blend / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Field	Bonham	TX	2022	110,766	Baseball		
Bordentown High School	High School	Rhino SF	Field B - Field Hockey	Bordentown	NJ	2022	49,497	Field Hockey		
Boyd Buchanan School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Chattanooga	TN	2022	97,269	Baseball		
Brantner Elementary School	Elementary School	RootZone 3D3 Trionic Blend	Playground	Brighton	CO	2022	27,300	Multipurpose		
Bridgewater-Raritan Regional School District	High School	Rhino Blend	Multipurpose Field	Bridgewater	NJ	2022	86,400	Lacrosse / Soccer		
Brighton Area Schools	Middle School	RootZone 3D3 Trionic Blend	Indoor Facility	Brighton	MI	2022	82,901	Field Hockey / Football / Lacrosse / Rugby / Soccer		



Brighton, City of	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Pawlowski Field #2	Brighton	CO	2022	32,736	Baseball		
Brighton, City of	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Pawlowski Field #1	Brighton	CO	2022	31,542	Baseball		
Brighton, City of	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Pawlowski Field #4	Brighton	CO	2022	39,559	Baseball		



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Brighton, City of	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Pawlowski Field #3	Brighton	CO	2022	41,609	Baseball		
Bryan County Soccer Complex	Community	Rhino Blend	Multipurpose Field	Richmond Hill	GA	2022	176,218	Lacrosse / Soccer		
Buchtel High School	High School	RootZone 3D3 Blend	Buchtel High School Stadium	Akron	OH	2022	84,000	Football / Soccer		
Burien, City of	Community	RootZone 3D3 Trionic Blend	Moshier Park	Burien	WA	2022	100,770	Baseball / Lacrosse / Soccer		
Burley High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Burley	ID	2022	100,000	Football		
California Baptist University	Division I	RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Riverside	CA	2022	33,471	Softball		
Cambridge High School	High School	RootZone 3D3 Trionic Blend	McFarland Stadium	Cambridge	OH	2022	101,508	Football / Soccer		
Canlan - 8 Rinks	Private	AstroPlay GTS	Soccer Field	Burnaby	CAN	2022	15,500	Soccer		



Canterbury School	High School	RootZone 3D3 Trionic Blend	Stadium	New Milford	CT	2022	113,984	Football / Lacrosse		
Cape Fear Academy	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Wilmington	NC	2022	68,300	Field Hockey / Lacrosse / Soccer		
Capital One Park	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	East Baseball Field	Mc Lean	VA	2022	125,368	Baseball		
Cassville High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Cassville	MO	2022	130,000	Baseball		



Cassville High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Overland Park	KS	2022	422,350	Softball		
Center Point High School	High School	Rhino Blend	Stadium	Birmingham	AL	2022	93,950	Football / Soccer		
Centralia College	Community College	RootZone 3D3 Trionic Blend	Multipurpose Field	Centralia	WA	2022	144,282	Baseball / Soccer / Softball		
Charlotte, City of	Community	Rhino Blend	Veterans Memorial Park Field 1	Charlotte	NC	2022	81,700	Soccer		
Charlotte, City of	Community	Rhino Blend	Veterans Memorial Park Field 2	Charlotte	NC	2022	81,700	Football / Soccer		
Chester County Sports Arena	Private	Rhino Blend	Multipurpose Field	Downingtown	PA	2022	19,775	Lacrosse / Soccer		
Chillicothe High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Chillicothe	MO	2022	99,800	Football / Soccer		
Chilliwack Southside School	High School	AstroPlay GTX	Multipurpose Field	Chilliwack	CAN	2022	97,328	Football / Lacrosse / Soccer		



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China Spring High School	High School	RootZone 3D3 Trionic Blend	Stadium	China Spring	TX	2022	99,167	Football / Soccer		
Chinook Elementary School	Elementary School	Rhino Blend	Multipurpose Field	Auburn	WA	2022	38,710	Multipurpose		
Colorado School of Mines	Division II	Ligaturf RootZone 3D3 Blend	Soccer Stadium	Golden	CO	2022	93,469	Soccer		
Colorado School of Mines	Division II	RootZone 3D3 Trionic Blend	Football Stadium	Golden	CO	2022	93,469	Football		
Columbus Academy	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield	Columbus	OH	2022	30,744	Baseball	Harland Young	614-804-7860
Columbus School for Girls	High School	RootZone 3D3 Blend / RootZone 3D3 Blend	CSG Kirk Campus Game Field		OH	2022	90,000	Field Hockey / Lacrosse / Soccer	Megan Henry	(614) 453-4513
Concordia University Wisconsin	Division III	RootZone 3D3 Trionic Blend	Tomasini Stadium	Mequon	WI	2022	93,826	Field Hockey / Football	Dr Rob Barnhill	
Cornell University	Division I	PureGrass	Intramural Soccer Field	Ithaca	NY	2022	64,938	Soccer		
Corner High School	High School	Rhino Blend	Stadium	Center Point	AL	2022	94,152	Football / Soccer		



Creswell Middle School	Middle School	RootZone 3D3 Trionic Blend	Multipurpose Field	Creswell	OR	2022	100,000	Football / Soccer		
Dade County Public Schools - JC Bermudez High School	High School	Rhino Blend	Softball Field	Miami	FL	2022	44,492	Softball		
Dade County Public Schools - JC Bermudez High School	High School	Rhino Blend	Baseball / Multipurpose Field	Miami	FL	2022	226,200	Baseball / Football / Lacrosse / Soccer		
Daniel Bagley Elementary	Elementary School	Rhino Blend	Multipurpose Field	Seattle	WA	2022	10,000	Multipurpose		
Daniel High School	High School	RootZone 3D3 Trionic Blend	Practice Field	Central	SC	2022	81,740	Football / Soccer		
Denison University	Division III	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI		Granville	OH	2022	32,000	Baseball	Mike Deegan	740-350-2772
Desert View High School	High School	RootZone 3D3 Trionic Blend	Stadium	Tucson	AZ	2022	89,854	Football / Soccer		
Dewitt High School	High School	RootZone 3D3 Trionic Blend	Stadium	Dewitt	MI	2022	88,462	Football / Lacrosse		



Dillon, Town of	Community	RootZone Diamond Blend RBI	Town Park Infield	Dillon	CO	2022	11,387	Baseball		
Discovery High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Lawrenceville	GA	2022	93,126	Football / Lacrosse / Soccer		
Dobson High School	High School	RootZone 3D3 Trionic Blend	Stadium	Mesa	AZ	2022	81,539	Football / Soccer		
Dodgertown Complex	Private	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Field 2	Vero Beach	FL	2022	139,150	Baseball		
Dothan High School	High School	RootZone 3D3 Trionic Blend HD	Rip Hewes Stadium	Dothan	AL	2022	83,993	Football / Soccer		
Duke University	Division I	Poligras Paris GT	Williams Field at Jack Katz Stadium	Durham	NC	2022	79,366	Field Hockey		
Dundee High School	High School	Rhino Blend	Stadium	Dundee	MI	2022	89,985	Football / Soccer		



Duval County Public Schools - Riverside High School	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Jacksonville	FL	2022	90,593	Football / Lacrosse / Lacrosse / Soccer	Tammie Talley	
East Jefferson Parish High School	High School	RootZone 3D3 Trionic Blend	Stadium	Metairie	LA	2022	77,000	Football		
Eastern New Mexico University Softball	Division II	Rhino Blend	Softball Outfield	Portales	NM	2022	40,313	Softball		
Eastside Catholic High School	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Sammamish	WA	2022	77,800	Football / Lacrosse / Soccer		
Effingham County High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Springfield	GA	2022	88,170	Football / Soccer		
Egg Harbor Township - Police Activities League	Community	Rhino Blend	Multipurpose	Egg Harbor Township	NJ	2022	14,197	Field Hockey / Football / Lacrosse / Soccer		
Ellwood City Area School District	High School	Rhino Blend	Helling Stadium	Ellwood City	PA	2022	78,408	Football / Soccer		
Elmbrook United	Community	Ligaturf RootZone 3D3 Blend	Voigt Park Stadium Field	Brookfield	WI	2022	97,000	Soccer		



Elmira High School	High School	RootZone 3D3 Trionic Blend	Stadium	Elmira	NY	2022	89,523	Football / Lacrosse / Soccer		
Estacado High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lubbock	TX	2022	91,150	Football / Soccer	Bill Craft	806.219.0000
Estancia High School	High School	RootZone 3D3 Trionic Decade	Stadium	Estancia	NM	2022	94,256	Football		
Evans High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Evans	GA	2022	89,200	Football / Lacrosse / Soccer		
Evansville, University of	Division I	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Stadium	Evansville	IN	2022	48,830	Softball	Bob Dale	812.488.2059
Everett School District	High School	RootZone 3D3 Trionic Blend	Everett Memorial Stadium	Everett	WA	2022	81,100	Football / Soccer		
Everman High School	High School	RootZone 3D3 Trionic Blend	Stadium	Fort Worth	TX	2022	85,000	Football / Soccer		
Faith Lutheran High School	High School	Rhino Blend	Multipurpose Field	Las Vegas	NV	2022	121,330	Football / Lacrosse / Soccer	Amy Fisher	702.804.4400 Ext. 192



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Faith Lutheran High School	High School	RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield	Las Vegas	NV	2022	24,171	Baseball	Amy Fisher	702.804.4400 Ext. 192
Faith Lutheran High School	High School	Rhino Blend	Softball Field	Las Vegas	NV	2022	45,000	Softball	Amy Fisher	702.804.4400 Ext. 192
Fargo Park District	Community	Rhino Blend	Osgood Park	New Britain	CT	2022	109,571	Football / Soccer		
Farmington Hills Community Center	Community	RootZone 3D3 Trionic Blend	The Hawk	Farmington	MI	2022	92,128	Football / Lacrosse / Soccer		
Fisher High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lafitte	LA	2022	75,547	Football / Soccer		
Fisher Island, City of	Community	Rhino SF	Soccer Field	Miami Beach	FL	2022	35,650	Soccer		
Florida Southwestern State College	Community College	Rhino Blend	Softball Field	Fort Myers	FL	2022	49,464	Softball		
Florida Southwestern State College	Community College	Rhino Blend	Baseball Field	Fort Myers	FL	2022	134,229	Baseball		
Fort Scott Community College	Community College	ERA RootZone Diamond OPS / Rhino SF / RootZone Diamond-i OPS	Baseball Field	Fort Scott	KS	2022	130,240	Baseball		



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Fountain-Fort Carson High School	High School	RootZone 3D3 Trionic Blend	Soccer Field	Fountain	CO	2022	100,000	Football / Soccer		
Gahanna-Jefferson Public Schools	High School	RootZone 3D3 Blend	Blacklick Soccer Field	Blacklick	OH	2022	85,000	Lacrosse / Soccer	Scott Lofton	(614)479-1931
Gahr High School	High School	RootZone 3D3 Trionic Blend	Stadium	Cerritos	CA	2022	83,086	Football / Soccer		
Gates Park	Community	AstroPlay GTX	ATF Field #2	Port Coquitlam	CAN	2022	90,000	Field Hockey / Lacrosse / Soccer		
Germantown Academy	High School	Rhino Blend	Stadium Field	Fort Washington	PA	2022	96,519	Football / Lacrosse / Soccer		
Glendale High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Glendale	AZ	2022	86,559	Football / Soccer		
Glenlyon Norfolk School	High School	AstroPlay GTQ	Multipurpose Field	Victoria	CAN	2022	74,735	Field Hockey / Soccer		
Grand Forks, City of	Community	Rhino SF HR	Montgomery Field	Grand Forks	ND	2022	29,293	Baseball		
Grand Island Fieldhouse	Private	PGPN	Soccer Fields	Grand Island	NE	2022	29,097	Soccer		
Grayson High School	High School	RootZone 3D3 Trionic Blend	Stadium	Loganville	GA	2022	92,610	Football / Lacrosse / Soccer		
Greenville High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Greenville	IL	2022	94,835	Football / Soccer / Softball	Joe Alstat	6189804295



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Greenway High School	High School	RootZone 3D3 Trionic Blend	Stadium	Phoenix	AZ	2022	96,028	Football / Soccer		
Greenwich Country Day School	High School	Poligras Platinum	Field Hockey / Softball Field	Greenwich	CT	2022	86,369	Field Hockey / Softball		
Grovetown High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Grovetown	GA	2022	88,108	Football / Lacrosse / Soccer		
Gulliver Preparatory School	High School	LigaTurf RootZone Blend 1.5"	Multipurpose Field	Miami	FL	2022	87,936	Baseball / Football / Lacrosse / Soccer		
Hanna High School	High School	AstroPlay GTQ	Football / Rugby Field	Hanna	CAN	2022	68,545	Football / Rugby		
Harding University	Division II	RootZone 3D3 Trionic Blend	Football Field	Searcy	AR	2022	87,889	Football		
Harrison Central High School	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Mazeroski Field	Cadiz	OH	2022	130,000	Baseball	Mike Valesko	330-245-9194
Henry J. Kaiser High School	High School	RootZone 3D3 Trionic Blend	Stadium	Fontana	CA	2022	93,395	Football / Soccer		



Heritage High School	High School	ERA RootZone Diamond RBI / Rhino Blend / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Varsity Baseball Field	Vancouver	WA	2022	116,205	Baseball		
Heritage High School	High School	ERA RootZone Diamond RBI / Rhino Blend / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	JV Softball Field	Vancouver	WA	2022	41,874	Softball		
Hillsborough County Parks	Community	RootZone 3D3 Trionic Blend	Providence Field	Tampa	FL	2022	76,551	Football / Lacrosse		
Hillsborough County Parks	Community	RootZone 3D3 Trionic Blend	Summerfield Field 2	Tampa	FL	2022	81,276	Lacrosse / Soccer		
Hillsborough County Parks	Community	RootZone 3D3 Trionic Blend	J.C. Handley Sports Complex	Tampa	FL	2022	162,074	Lacrosse / Soccer		
Hillsborough County Parks	Community	RootZone 3D3 Trionic Blend	Fishhawk Baseball	Tampa	FL	2022	75,506	Baseball		
Hillsborough County Parks	Community	RootZone 3D3 Trionic Blend	Summerfield Field 1	Tampa	FL	2022	81,276	Lacrosse / Soccer		



Hope College	Division III	RootZone 3D3 Trionic Blend	Stadium	Holland	MI	2022	95,687	Football		
Hopkinton Parks and Recreation	Community	Rhino Blend	Fruit Street Fields	Hopkinton	MA	2022	178,000	Soccer		
Hueytown High School	High School	Rhino Blend	Stadium	Bessemer	AL	2022	95,401	Football / Soccer		
Huron Valley Athletic Complex	Private	RootZone 3D3 Trionic Blend	Indoor	Milford	MI	2022	22,500	Soccer		
IMG Academy	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield #1	Bradenton	FL	2022	35,537	Baseball		
IMG Academy	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield #5	Bradenton	FL	2022	27,292	Baseball		



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IMG Academy	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield #6	Bradenton	FL	2022	27,292	Baseball		
IMG Academy	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield #4	Bradenton	FL	2022	27,292	Baseball		
IMG Academy	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield #3	Bradenton	FL	2022	27,292	Baseball		
IMG Academy	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Infield #2	Bradenton	FL	2022	27,292	Baseball		



Independence High School	High School	RootZone 3D3 Trionic Blend	Stadium	Glendale	AZ	2022	100,662	Football / Soccer		
Indian Creek HS Stadium	High School	RootZone 3D3 Trionic Blend	Stadium Field	Trafalgar	IN	2022	101,600	Football	Tim Edsell	317-878-2100
Iowa, University of	Division I	System 90	Grant Field	Iowa City	IA	2022	69,300	Field Hockey		
Jackson High School	High School	RootZone 3D3 Blend HD	Red Devil Athletic Complex	Jackson	GA	2022	74,150	Football / Soccer		
Jasper Place Bowl	Community	Ligaturf RootZone 3D3 Blend	Multipurpose Field	Edmonton	CAN	2022	118,000	Football / Soccer		
Jefferson Elementary School	Elementary School	RootZone 3D3 Trionic Blend	Multipurpose	Redondo Beach	CA	2022	39,436	Multipurpose		
Jefferson ISD	High School	RootZone 3D3 Trionic Blend	W.F. Lockett Stadium at Jerry Bennett Field	Jefferson	TX	2022	94,928	Football		
Jenison High School	High School	RootZone 3D3 Trionic Blend	Indoor Athletic Facility	Jenison	MI	2022	35,640	Football / Soccer		
Jesuit High School	High School	RootZone 3D3 Trionic Blend	Stadium	Carmichael	CA	2022	85,823	Football / Soccer		
Joe Cannon Stadium	Division I	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Stadium	Hanover	MD	2022	125,000	Baseball	Michael T. Liles Jr.	410.365.8669



Joplin High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Lees Summit	MO	2022	44,000	Softball		
King George Park	Community	AstroPlay GTQ	Multipurpose Field	Richmond	CAN	2022	85,000	Field Hockey / Lacrosse / Soccer		
LA Galaxy Practice Field - Dignity Health Sports Complex	Professional	LigaTurf RootZone Blend 1.5"	Soccer Field #7	Carson	CA	2022	95,625	Soccer		
LA Galaxy Practice Field - Dignity Health Sports Complex	Professional	Ligaturf RS Pro II	Soccer Field #5	Carson	CA	2022	96,000	Soccer	Adam Duvendeck	310.427.0514
Lake Lehman High School	High School	Rhino SF	Multipurpose Field	Lehman	PA	2022	207,624	Baseball / Field Hockey / Lacrosse / Soccer / Softball		
Lakeside High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Evans	GA	2022	91,190	Football / Lacrosse / Soccer		



Lancaster Mennonite School	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Lancaster	PA	2022	99,500	Field Hockey / Soccer / Softball		
Lanier High School	High School	RootZone 3D3 Trionic Blend	Stadium	Buford	GA	2022	91,975	Football / Lacrosse / Soccer		
Legacy Christian Academy	High School	RootZone 3D3 Trionic Blend	Stadium	Frisco	TX	2022	89,343	Football / Soccer		
Lewiston, City of	Community	Rhino Blend / RootZone Diamond-i OPS	Hereth Park Infield	Lewiston	ID	2022	22,140	Baseball		
Lexington Senior High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lexington	NC	2022	86,407	Football / Soccer		
Liberty Bowl	Division I	RootZone 3D3 Trionic Blend	Rex Dockery Field	Memphis	TN	2022	93,000	Football		
Liberty University	Division I	RootZone 3D3 Trionic Blend	Williams Stadium	Lynchburg	VA	2022	101,423	Football		
Liberty University	Division I	Poligras Platinum	Field Hockey Field	Lynchburg	VA	2022	81,150	Field Hockey		
Liberty University	Division I	RootZone 3D3 Trionic Blend	Baseball & Softball Indoor	Lynchburg	VA	2022	47,444	Baseball (Miscellaneous) / Softball (Miscellaneous)		



Lincoln High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Tallahassee	FL	2022	98,568	Football / Soccer		
Lincoln Park High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lincoln Park	MI	2022	92,495	Football / Soccer		
Lincoln Preparatory School	High School	RootZone 3D3 Trionic Blend	Stadium	Grambling	LA	2022	101,722	Football / Soccer		
Livermore Area Recreation and Park District	Community	RootZone 3D3 Trionic Blend	Robertson Park	Livermore	CA	2022	217,502	Football / Soccer		
Livingston High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Livingston	TX	2022	89,260	Football / Soccer		
Lubbock High School	High School	RootZone 3D3 Trionic Blend	Stadium	Lubbock	TX	2022	92,465	Football / Soccer		
Lusher High School	High School	Rhino SF	Multipurpose Field	New Orleans	LA	2022	87,601	Baseball / Football / Soccer / Softball		
Lusher High School	High School	PGPN	Batting Cages	New Orleans	LA	2022	2,851	Baseball (Miscellaneous)		
Maranatha Christian Acedemy	High School	Rhino SF	Stadium	Shawnee	KS	2022	99,703	Football / Soccer		
Marshall University	Division I	RootZone 3D3 Blend	Joan C. Edwards Stadium	Huntington	WV	2022	85,200	Football		



Martin Luther King High School	High School	RootZone 3D3 Trionic Decade	Stadium	Riverside	CA	2022	77,000	Football / Soccer		
Martin Luther King Jr. High School	High School	Rhino Blend	Stadium	Detroit	MI	2022	84,637	Football / Lacrosse / Soccer		
Mary Carroll High School - Corpus Christi ISD	High School	RootZone 3D3 Trionic Blend	Football / Soccer Field	Corpus Christi	TX	2022	100,226	Football / Soccer		
Mater Academy - East Campus	High School	RootZone 3D3 Trionic Blend	Stadium	Las Vegas	NV	2022	88,105	Football / Soccer	Shawn Dickson	702.462.9361
McAdory High School	High School	Rhino Blend	Stadium	Mc Calla	AL	2022	81,170	Football / Soccer		
McDonald County High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Anderson	MO	2022	48,567	Softball		



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McDonald County High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Field	Anderson	MO	2022	106,541	Baseball		
Metro State University	Division II	LigaTurf RootZone Blend 1.5"	Soccer Field	Denver	CO	2022	112,560	Soccer		
Metro State University	Division II	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Field	Denver	CO	2022	51,571	Softball		
Metro State University	Division II	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Field	Denver	CO	2022	133,620	Baseball	Jerrid Oates	303.882.8559
Michigan State University	Division I	System 90	Ralph Young Field	East Lansing	MI	2022	75,231	Field Hockey		



Middlebury College	Division III	Poligras	Kohn Field Hockey Stadium	Middlebury	VT	2022	92,971	Field Hockey		
Mitchell, City of	Community	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Cadwell Field	Mitchell	SD	2022	31,553	Baseball		
Monterey FC Stadium	Professional	Ligaturf RS Pro II	Soccer Field	Seaside	CA	2022	90,678	Soccer		
Monticello High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Charlottesville	VA	2022	76,186	Field Hockey / Football / Lacrosse / Soccer		
Monument Valley High School	High School	RootZone 3D3 Trionic Blend	Football Field	Kayenta	AZ	2022	78,398	Football		
Moore High School	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Field	Oklahoma City	OK	2022	49,856	Softball		



Morrow High School	High School	RootZone 3D3 Trionic Blend	Softball Field	Ellenwood	GA	2022	49,660	Softball		
Morrow High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Ellenwood	GA	2022	92,211	Football / Soccer		
Morrow High School	High School	ERA RootZone Diamond OPS / RootZone 3D3 Trionic Blend / RootZone Diamond Blend OPS	Baseball Field	Ellenwood	GA	2022	123,060	Baseball		
Mount Holyoke College	Division III	Poligras	Field Hockey	South Hadley	MA	2022	89,330	Field Hockey / Lacrosse		
MSA Woodland Indoor	Private	RootZone 3D3 Trionic Blend	Indoor	Grand Rapids	MI	2022	51,640	Soccer		
Muskogee High School	High School	RootZone 3D3 Trionic Blend	Football Stadium	Muskogee	OK	2022	83,052	Football		
Natick High School	High School	Rhino Blend	Multipurpose	Natick	MA	2022	78,000	Football		



Neosho Community College	Community College	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Infield	Chanute	KS	2022	14,083	Softball		
Neosho Community College	Community College	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	Chanute	KS	2022	27,526	Baseball		
New Castle Area School District	High School	Rhino SF	Football Stadium	New Castle	PA	2022	67,790	Football		
New Castle County	Community	RootZone 3D3 Trionic Blend	Banning Park Field	Wilmington	DE	2022	96,768	Soccer		
North Dakota State University	Division I	RootZone 3D3 Blend Magic Carpet	FargoDome	Fargo	ND	2022	76,000	Football		
North Hills School District	High School	RootZone 3D3 Trionic Blend	Martorelli Stadium	Pittsburgh	PA	2022	77,463	Football / Lacrosse / Soccer		



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North Port High School	High School	Rhino Blend	Stadium Field	North Port	FL	2022	89,129	Football / Lacrosse / Soccer		
Northeastern University	Division I	PureGrass	Multipurpose	Boston	MA	2022	17,685	Multipurpose		
Northern Illinois University	Division I	Ligaturf RootZone 3D3 Blend	Soccer Field	Dekalb	IL	2022	83,108	Soccer		
Northern Illinois University	Division I	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Field	Dekalb	IL	2022	126,386	Baseball	Ryan Copeland	815.753.7225
Northshore Little League	Community	RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	Woodinville	WA	2022	28,000	Baseball		
Northwest Nazarene University	Division II	Rhino Blend / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	Nampa	ID	2022	30,500	Baseball		



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Northwestern University	Division I	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Rocky Miller Park - Infield	Evanston	IL	2022	17,844	Baseball	Ben Greenspan	847.491.3205
Norton High School	High School	Rhino Blend	Field #1	Norton	MA	2022	213,650	Football / Soccer		
Norton High School	High School	Rhino Blend	Field #2	Norton	MA	2022	213,650	Baseball / Soccer		
Oak Grove High School	High School	Rhino Blend	Stadium	Bessemer	AL	2022	98,020	Football / Soccer		
Oakland Parks & Recreation	Community	RootZone 3D3 Trionic Blend	Defremory Park	Oakland	CA	2022	4,800	Multipurpose		
Oakwood High School	High School	RootZone 3D3 Trionic Blend	Football Field	Oakwood	TX	2022	102,305	Football		
Ohio State University, The	Division I	System 90	Buckeye Varsity Field	Columbus	OH	2022	77,760	Field Hockey		
Olentangy Liberty High School	High School	Rhino SF HR	Softball Field #1	Powell	OH	2022	14,702	Softball		
Olentangy Liberty High School	High School	Rhino SF HR	Softball Field #2	Powell	OH	2022	14,702	Softball		
Olmsted Falls High School	High School	RootZone 3D3 Trionic Blend	Stadium	Olmsted Falls	OH	2022	96,085	Football / Lacrosse / Soccer		



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Overland Trail Middle School	Middle School	RootZone 3D3 Trionic Blend	Multipurpose Field	Brighton	CO	2022	96,790	Football / Soccer		
Paragon Star Complex	Private	LigaTurf RootZone Blend 1.5"	Field #2	Lees Summit	MO	2022	103,114	Multipurpose / Soccer		
Paragon Star Complex	Private	LigaTurf RootZone Blend 1.5"	Field #1	Lees Summit	MO	2022	103,094	Multipurpose / Soccer		
Paragon Star Complex	Private	LigaTurf RootZone Blend 1.5"	Field #9 & 10	Lees Summit	MO	2022	198,899	Multipurpose / Soccer		
Paragon Star Complex	Private	LigaTurf RootZone Blend 1.5"	Field #7 & 8	Lees Summit	MO	2022	198,899	Multipurpose / Soccer		
Paragon Star Complex	Private	LigaTurf RootZone Blend 1.5"	Field #6	Lees Summit	MO	2022	108,152	Multipurpose / Soccer		
Paragon Star Complex	Private	LigaTurf RootZone Blend 1.5"	Field #5	Lees Summit	MO	2022	105,903	Multipurpose / Soccer		
Paragon Star Complex	Private	LigaTurf RootZone Blend 1.5"	Field #4	Lees Summit	MO	2022	102,256	Multipurpose / Soccer		



Paragon Star Complex	Private	LigaTurf RootZone Blend 1.5"	Field #3	Lees Summit	MO	2022	106,332	Multipurpose / Soccer		
Parkview High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Lilburn	GA	2022	90,763	Football / Lacrosse / Soccer		
Paul Quinn College	NAIA	Ligaturf RootZone 3D3 Blend	Soccer Field	Dallas	TX	2022	89,425	Soccer	Bruce Brinson	214.302.3569
Paul VI High School	High School	Rhino Blend	Stadium	Haddonfield	NJ	2022	100,396	Field Hockey / Football / Lacrosse / Soccer		
Peachtree Ridge High School	High School	RootZone 3D3 Trionic Blend	Stadium	Suwanee	GA	2022	94,080	Football / Lacrosse / Soccer		
Pembroke Hill High School	High School	RootZone 3DSF	Stadium	Kansas City	MO	2022	96,930	Football / Soccer		
PenMet Parks	Community	RootZone 3D3 Trionic Blend	Sehmel Homestead Park	Gig Harbor	WA	2022	100,750	Football / Lacrosse / Soccer		
Penn Manor School District	High School	RootZone 3D3 Trionic Blend	Multipurpose Field	Millersville	PA	2022	77,637	Football / Lacrosse		



Pequannock Township High School	High School	Rhino Blend	Field 1 (Stadium Field)	Pompton Plains	NJ	2022	169,799	Field Hockey / Football / Lacrosse / Soccer		
Pequannock Township High School	High School	Rhino Blend	Field 2 (Aux Field)	Pompton Plains	NJ	2022	169,799	Field Hockey / Football / Lacrosse / Soccer		
Petersburg High School	High School	RootZone 3D3 Trionic Blend	Stadium	Petersburg	VA	2022	93,724	Football / Soccer		
Phoenixville Area School District	High School	Rhino SF	Stadium	Phoenixville	PA	2022	88,991	Field Hockey / Football / Lacrosse / Soccer		
Pikeville High School	High School	Rhino SF HR	Baseball / Football Field	Pikeville	KY	2022	124,300	Baseball / Football		
Pinnacle Soccer Indoor	Private	RootZone 3D3 Trionic Blend	Indoor	Medina	OH	2022	22,500	Soccer		
Pioneer Academy	High School	Rhino Blend	Soccer Field	Phoenixville	PA	2022	25,200	Soccer		
Pisgah High School - Haywood County Schools	High School	Rhino SF	Stadium	Canton	NC	2022	75,614	Football / Soccer		
Port Moody, City of	Community	AstroPlay GTQ	Trasolini Field	Port Moody	CAN	2022	92,118	Field Hockey / Lacrosse / Soccer		



Port Richmond High School	High School	Rhino M	Baseball / Softball Field	Staten Island	NY	2022	103,352	Baseball / Softball		
Potomac High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	McLean	VA	2022	96,794	Field Hockey / Football / Lacrosse		
Poulsbo, City of	Community	RootZone 3D3 Trionic Blend	Strawberry Field	Poulsbo	WA	2022	80,150	Lacrosse / Soccer		
Prague High School	High School	Rhino Blend	Football Field	Prague	OK	2022	81,590	Football		
Prairie View Middle School	Middle School	RootZone 3D3 Trionic Blend	Football / Soccer Field	Henderson	CO	2022	96,790	Football / Soccer		
Radnor High School	High School	Rhino SF	Stadium	Wayne	PA	2022	94,034	Football / Lacrosse / Soccer		
Ramona High School	High School	RootZone 3D3 Trionic Decade	Stadium Field	Riverside	CA	2022	77,278	Football / Soccer		
Rock Springs Park	Community	Rhino SF	Multipurpose Field	Lawrenceville	GA	2022	147,872	Football / Lacrosse / Soccer		
Rocktown High School	High School	Rhino Blend	Stadium	Harrisonburg	VA	2022	93,361	Football / Soccer		
Royse City ISD	High School	RootZone 3D3 Trionic Blend	Stadium	Royse City	TX	2022	80,000	Football / Soccer		
Sabine ISD	High School	RootZone 3D3 Trionic Blend	Stadium	Gladewater	TX	2022	96,667	Football / Soccer		



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Saint Mary's Hall High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	San Antonio	TX	2022	79,429	Field Hockey / Football / Lacrosse / Soccer	Dom Smith	210.483.9100
San Juan Hills High School	High School	RootZone 3D3 Trionic Blend	Stadium	San Juan Capistrano	CA	2022	81,510	Football / Soccer		
Seattle Parks & Recreation	Community	Rhino Blend	Washington Park Playfield	Seattle	WA	2022	111,200	Lacrosse / Soccer		
Seattle Parks & Recreation	Community	Rhino Blend	Miller Playfield	Seattle	WA	2022	91,000	Lacrosse / Soccer		
Seattle Parks and Recreation	Community	Rhino Blend	Georgetown Playfield	Seattle	WA	2022	109,000	Soccer / Softball		
Seckinger High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Buford	GA	2022	92,810	Football / Lacrosse / Soccer		
Selinsgrove Soccer	Private	RootZone 3D3 Trionic Blend	Indoor Facility	Middleburg	PA	2022	16,252	Soccer		
Shallowater High School	High School	RootZone 3D3 Trionic Blend	Football Field	Shallowater	TX	2022	90,646	Football		
Shawnee High School	High School	RootZone 3D3 Blend	Stadium	Lima	OH	2022	87,662	Football / Soccer		
Sheridan High School	High School	Rhino Blend	Stadium	Sheridan	AR	2022	95,621	Football / Soccer	Matt Scarbrough	870.917.8202



Sierra Canyon School	High School	RootZone 3D3 Trionic Blend	Stadium	Chatsworth	CA	2022	85,579	Football / Lacrosse / Soccer		
Skyline High School	High School	RootZone 3D3 Trionic Blend	Stadium	Mesa	AZ	2022	89,334	Football / Soccer		
South Effingham High School	High School	RootZone 3D3 Trionic Blend HD	Stadium	Guyton	GA	2022	90,773	Football / Soccer		
Southmoore High School	High School	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Softball Field	Moore	OK	2022	51,179	Softball	Jeff Horn	405.213.7205
Southwest Mississippi Community College	Community College	RootZone 3D3 Trionic Blend	Stadium	Summit	MS	2022	96,564	Football / Soccer		
Spring Arbor University	NAIA	Rhino Blend	Soccer Stadium	Spring Arbor	MI	2022	0	Soccer		
St. Anthony High School	High School	RootZone 3D3 Trionic Blend	Stadium	Long Beach	CA	2022	89,027	Football / Soccer		
St. John's County Parks and Recreation	Community	Rhino Blend	Veterans Park	Saint Johns	FL	2022	68,992	Soccer		
St. John's County Parks and Recreation	Community	Rhino Blend	Veterans Park Warm Up Field	Saint Johns	FL	2022	10,201	Multipurpose / Soccer	Ryan Kane	



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St. John's County Parks and Recreation	Community	Rhino Blend	Gamble Rodgers Park	Saint Johns	FL	2022	82,712	Soccer	Ryan Kane	
St. Luke's Turf Complex	Private	RootZone 3D3 Trionic Blend	Field #2	Whitehall	PA	2022	22,892	Football / Lacrosse / Soccer		
Sterling High School	High School	Rhino SF HR	Baseball Field	Sterling	IL	2022	121,243	Baseball		
Sterling High School	High School	Rhino SF HR	Softball Field	Sterling	IL	2022	44,005	Softball		
Stockton University	Division III	RootZone 3D3 Trionic Blend HD	Multipurpose Field	Galloway	NJ	2022	110,430	Field Hockey / Lacrosse / Soccer		
Summers Best Two Weeks	Private	Rhino SF	Soccer Fields	Boswell	PA	2022	25,776	Soccer		
Sumner-Bonney Lake School District	High School	RootZone 3D3 Trionic Blend	Sunset Stadium	Sumner	WA	2022	83,714	Football / Soccer		
Sunnyland Elementary	Elementary School	RootZone 3D3 Trionic Blend HD	Multipurpose Field	Bellingham	WA	2022	20,500	Multipurpose		
Sunnyside High School	High School	RootZone 3D3 Trionic Blend	Stadium	Tucson	AZ	2022	77,969	Football / Soccer		
Sunnyslope High School	High School	RootZone 3D3 Trionic Blend	Stadium	Phoenix	AZ	2022	87,628	Football / Soccer		
Sweet Briar College	Division III	Poligras Platinum	Field Hockey	Sweet Briar	VA	2022	76,153	Field Hockey		
T-3 Performance Center	Private	Rhino SF	Multipurpose Facility	Avon	OH	2022	20,001	Multipurpose		



AstroTurf

The second half of the AstroTurf Century

INSTALLATION LIST

Taylor University	NAIA	RootZone 3D3 Trionic Blend	Turner Stadium Field	Upland	IN	2022	95,922	Football / Soccer	Kyle Gould	7659984635
Thames Outdoor Recreation Complex	Community	Rhino Blend	Multipurpose Field	Dorchester	CAN	2022	33,000	Multipurpose		
Thomas Jefferson High School	High School	RootZone 3D3 Trionic Blend	Stadium Field	Auburn	WA	2022	79,558	Football / Soccer		
Tift County High School	High School	Rhino Blend	Multipurpose Field	Tifton	GA	2022	95,185	Football / Soccer		
Union City	Community	Rhino Blend	Jose Martie Field	Union City	NJ	2022	130,758	Baseball / Football / Soccer / Softball		
Valdosta High School	High School	RootZone 3D3 Trionic Blend	Football Field	Valdosta	GA	2022	70,297	Football		
Valley Forge Military Academy	Community College	Rhino SF	Stadium	Wayne	PA	2022	100,298	Football / Lacrosse / Soccer		
Venice High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball Infield	Venice	FL	2022	32,165	Baseball		



Vikan Middle School	Middle School	RootZone 3D3 Trionic Blend	Football Soccer Field	Brighton	CO	2022	92,758	Football / Soccer		
Ware County Miracle League of the Okefenokee	Community	Rhino SF HR	Trembling Earth Sports Complex	Waycross	GA	2022	40,986	Baseball / Softball		
Warrensburg High School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Softball Field	Warrensburg	MO	2022	44,878	Softball		
Washington, University of	Division I	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Husky Ballpark	Seattle	WA	2022	145,000	Baseball	Dan Erickson	206.685.2570
Wears Farm City Park	Community	ERA RootZone Diamond OPS / Rhino SF HR / RootZone Diamond-i OPS	River Front Field	Pigeon Forge	TN	2022	60,918	Baseball		



Wears Farm City Park	Community	ERA RootZone Diamond OPS / Rhino SF HR / RootZone Diamond-i OPS	Three Rivers Field	Pigeon Forge	TN	2022	63,326	Baseball		
Wears Farm City Park	Community	ERA RootZone Diamond OPS / Rhino SF HR / RootZone Diamond-i OPS	Veterans Field	Pigeon Forge	TN	2022	61,964	Baseball		
Wears Farm City Park	Community	ERA RootZone Diamond OPS / Rhino SF HR / RootZone Diamond-i OPS	Busch Field	Pigeon Forge	TN	2022	62,758	Baseball		
Wears Farm City Park	Community	PGPN	Batting Cages	Pigeon Forge	TN	2022	10,044	Baseball (Miscellaneous)		
Wellpinit High School	High School	RootZone 3D3 Trionic Blend	Football Field	Wellpinit	WA	2022	74,100	Football		
West Jefferson High School	High School	RootZone 3D3 Trionic Blend	Stadium	Harvey	LA	2022	77,000	Football / Lacrosse / Soccer		



West Langford Pexsisen & Centre Mountain Schools	High School	AstroPlay GTQ	Lower Field	West Langford, BC	CAN	2022	82,134	Soccer		
West Valley College	Community College	ERA RootZone Diamond RBI / RootZone Diamond Blend RBI / RootZone Diamond-i RBI	Baseball Field	Saratoga	CA	2022	129,878	Baseball		
Westwood High School	High School	RootZone 3D3 Trionic Blend	Stadium	Mesa	AZ	2022	80,857	Football / Soccer		
Wide World of Sports Center	Private	RootZone 3D3 Trionic Blend	Soccer Field	Ann Arbor	MI	2022	81,200	Soccer		
Wilkes-Barre Area High School	High School	RootZone 3D3 Trionic Blend	Stadium	Wilkes Barre	PA	2022	89,447	Field Hockey / Football / Lacrosse / Soccer		
Winchendon School	High School	Rhino Blend	Multipurpose Field	Winchendon	MA	2022	125,650	Lacrosse / Soccer		



Winchendon School	High School	ERA RootZone Diamond OPS / RootZone Diamond Blend OPS / RootZone Diamond-i OPS	Baseball / Softball Field	Winchendon	MA	2022	125,650	Baseball / Softball		
Wingate University	Division II	RootZone 3D3 Trionic Blend	Stadium	Wingate	NC	2022	91,845	Football / Lacrosse		
Woodmoor Elementary	Elementary School	RootZone 3D3 Trionic Blend	Multipurpose Field	Bothell	WA	2022	60,000	Multipurpose / Soccer		
Yale University	Division I	AstroTurf 12	Johnson Field	New Haven	CT	2022	86,400	Field Hockey		
YSC Sports	Private	RootZone 3D3 Trionic Blend	Multipurpose	Wayne	PA	2022	76,614	Multipurpose		



SYNLAWN®
Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



CLASSIC PITCH TRI

An excellent product for the golfer seeking consistent ball roll for putting and durability for chip shots. With ASTM Certified E-108 Class A Fire Rating, UV protection, and heat-reflecting technology, this tri-colored nylon turf is also perfect for rooftops, schools, office buildings, and more

SKU	CLPIT
Grass Zone Yarn/Color	Nylon / Sport Green/Apple/Olive
Grass Zone Denier	4,200 / 8
Thatch Zone Yarn/Color	-
Thatch Zone Denier	-
Grass Zone Yarn Shape	Textured Diamond
Finished Pile Height	7/8"
Finished Pile / Total Weight	53 oz. / 81 oz.
Backing	13PP/18PET 2pt/22oz. EnviroLoc+™
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	-
Features	EnviroLoc+™ HeatBlock UV Stabilizers
Test Data	CAL 1350, ASTM D2859, ASTM E-108, ASTM E1908, ASTM E648, EN-71, ASTM F1292, ASTM F2765

- LIMITED LIFETIME WARRANTY
- 100% NYLON W/HEATBLOCK TECHNOLOGY
- EXCELLENT AS A GOLF HITTING SURFACE
- IDEAL FOR PLAYGROUND TRAMPLEZONES™

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CLASSIC PITCH TRI

Primary Yarn Polymer	Nylon
Yarn Cross Section	Textured Diamond
Standard Color	Sport Green/Apple/Olive
Fabric Construction	Tufted
Second Yarn Polymer Thatch	-
Secondary Yarn Color	-

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	4,200 / 8
Texturized Thatch Denier / Ends	-
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	7/8	inches	D-5823
Face Weight	53	oz/yd^2	D-5848
Total Fabric Weight	81	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	4,200	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	-	in/hr	-
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



CLASSIC PITCH

An excellent product for the golfer seeking consistent ball roll for putting and durability for chip shots. It's remarkable stability also makes it an excellent choice for use in playground TrampleZones™.

SKU	CPITC
Grass Zone Yarn/Color	Nylon / Verde
Grass Zone Denier	4,200 / 8
Thatch Zone Yarn/Color	-
Thatch Zone Denier	-
Grass Zone Yarn Shape	Textured Diamond
Finished Pile Height	7/8"
Finished Pile / Total Weight	53 oz. / 81 oz.
Backing	13PP/18PET 2pt/22oz. EnviroLoc+™
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	-
Features	EnviroLoc+™ HeatBlock UV Stabilizers
Test Data	CAL 1350, ASTM D2859, ASTM E-108, ASTM E1908, ASTM E648, EN-71, ASTM F1292, ASTM F2765

- LIMITED LIFETIME WARRANTY
- 100% NYLON W/HEATBLOCK TECHNOLOGY
- EXCELLENT AS A GOLF HITTING SURFACE
- IDEAL FOR PLAYGROUND TRAMPLEZONES™

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CLASSIC PITCH

Primary Yarn Polymer	Nylon
Yarn Cross Section	Textured Diamond
Standard Color	Verde
Fabric Construction	Tufted
Second Yarn Polymer Thatch	-
Secondary Yarn Color	-

Primary Backing	13PP/18PET 2-Part
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	4,200 / 8
Texturized Thatch Denier / Ends	-
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	7/8	inches	D-5823
Face Weight	53	oz/yd^2	D-5848
Total Fabric Weight	81	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	4,200	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	-	in/hr	-
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



CLASSIC PUTT

A trusted favorite among contractors and golfers alike, Classic Putt is celebrated for its natural appearance, consistent performance, and accurate ball roll. Crafted from durable, contractor-grade nylon, this turf delivers reliable speed, true roll, and realistic check, making it ideal for putting greens, fairways, and high-traffic areas. Built to withstand heavy use, Classic Putt ensures long-lasting quality and performance for any application.

SKU	CLPUT
Grass Zone Yarn/Color	Nylon / Verde
Grass Zone Denier	4,200 / 8
Thatch Zone Yarn/Color	-
Thatch Zone Denier	-
Grass Zone Yarn Shape	Textured Diamond
Finished Pile Height	1/2"
Finished Pile / Total Weight	34 oz. / 60 oz.
Backing	13PP/18PET 2pt / 20 oz Black PU
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	-
Features	HeatBlock UV Stabilizers
Test Data	ASTM E84, EN-71, ASTM F1551

- LIMITED LIFETIME WARRANTY
- 100% NYLON W/HEATBLOCK TECHNOLOGY
- EXCELLENT AS A GOLF PUTTING SURFACE
- IDEAL FOR PLAY TRAMPLEZONES™

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CLASSIC PUTT

Primary Yarn Polymer	Nylon
Yarn Cross Section	Textured Diamond
Standard Color	Verde
Fabric Construction	Tufted
Second Yarn Polymer Thatch	-
Secondary Yarn Color	-

Primary Backing	13PP/18PET 2Pt
Coating Type	20 oz Black PU
PE Yarn Denier / Ends	4,200 / 8
Texturized Thatch Denier / Ends	-
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1/2	inches	D-5823
Face Weight	34	oz/yd^2	D-5848
Total Fabric Weight	60	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	20	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	4,200	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	-	-	-
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



PRECISION PUTT™ TRI

Tour-pro tested and TGL-approved, Precision Putt sets the gold standard for performance and durability. This nylon turf delivers true ball roll, consistent speed, and a natural, multi-colored appearance. With its durable fibers and embossed rubber backing, it excels in putting, receiving approach shots, and handling high-traffic areas like golf courses and TrampleZones™.

SKU	PPUTT
Grass Zone Yarn/Color	Nylon / Sport Green/Apple/Olive
Grass Zone Denier	4,200 / 8
Thatch Zone Yarn/Color	-
Thatch Zone Denier	-
Grass Zone Yarn Shape	Textured Diamond
Finished Pile Height	3/8"
Finished Pile / Total Weight	47 oz. / 84 oz.
Backing	13PP/18PET 2pt / 20oz. Embossed Rubber
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	-
Features	HeatBlock UV Stabilizers
Test Data	CAL 1350, ASTM D2859, ASTM E-108, ASTM E648, ASTM E84, EN-71

- LIMITED LIFETIME WARRANTY
- 100% NYLON W/HEATBLOCK TECHNOLOGY
- REALISTIC BALL CHECK AND ROLL WITH CHIP AND PITCH SHOTS
- STIMP METER SPEED: 10-12

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PRECISION PUTT TRI

Primary Yarn Polymer	Nylon
Yarn Cross Section	Textured Diamond
Standard Color	Sport Green/Apple/Olive
Fabric Construction	Tufted
Second Yarn Polymer Thatch	-
Secondary Yarn Color	-

Primary Backing	13PP/18PET 2pt
Coating Type	20 oz. Embossed Rubber
PE Yarn Denier / Ends	4,200 / 8
Texturized Thatch Denier / Ends	-
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	3/8	inches	D-5823
Face Weight	47	oz/yd^2	D-5848
Total Fabric Weight	84	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	20	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	4,200	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	-		-
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



PRECISION PUTT™

Tour-pro tested and TGL-approved, Precision Putt™ sets the gold standard for performance and durability. This nylon turf delivers true ball roll, consistent speed, and a natural appearance. With its durable fibers and embossed rubber backing, it excels in putting, receiving approach shots, and handling high-traffic areas like golf courses and TrampleZones™.

SKU	SG326
Grass Zone Yarn/Color	Nylon / Verde
Grass Zone Denier	4,200 / 8
Thatch Zone Yarn/Color	-
Thatch Zone Denier	-
Grass Zone Yarn Shape	Textured Diamond
Finished Pile Height	3/8"
FInished Pile / Total Weight	47 oz. / 84 oz.
Backing	13PP/18PET 2pt / 20oz. Embossed Rubber
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	-
Features	HeatBlock UV Stabilizers
Test Data	CAL 1350, ASTM D2859, ASTM E-108, ASTM E1908, ASTM E648, ASTM E84, EN-71, ASTM F1551, ASTM F2765

- LIMITED LIFETIME WARRANTY
- 100% NYLON W/HEATBLOCK TECHNOLOGY
- REALISTIC BALL CHECK AND ROLL WITH CHIP AND PITCH SHOTS
- STIMP METER SPEED: 10-12

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PRECISION PUTT

Primary Yarn Polymer	Nylon
Yarn Cross Section	Textured Diamond
Standard Color	Verde
Fabric Construction	Tufted
Second Yarn Polymer Thatch	-
Secondary Yarn Color	-

Primary Backing	13PP/18PET 2pt
Coating Type	20 oz. Embossed Rubber
PE Yarn Denier / Ends	4,200 / 8
Texturized Thatch Denier / Ends	-
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	3/8	inches	D-5823
Face Weight	47	oz/yd^2	D-5848
Total Fabric Weight	84	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	20	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	4,200	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	-	-	-
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



TEE STRIKE

The ultimate turf for golf tee lines, tee boxes, and hitting mats, trusted by professionals for its superior performance. With a dense 1" nylon pile, it holds standard golf tees, reduces club head drag, and ensures smooth, natural swings. Tee Strike delivers exceptional durability, accuracy, and consistency, making it the premier choice for both practice and club-fitting setups. Built for the pros, it offers reliable performance for players at every level.

- LIMITED LIFETIME WARRANTY
- NYLON FIBERS FOR UNMATCHED DURABILITY
- HOLDS GOLF TEES IN TEE LINES & MATS
- IDEAL FOR DRIVING RANGES & SIMULATORS

SKU	SS301
Grass Zone Yarn/Color	Nylon / Verde
Grass Zone Denier	7,000 / 8
Thatch Zone Yarn/Color	-
Thatch Zone Denier	-
Grass Zone Yarn Shape	Textured Diamond
Finished Pile Height	1"
Finished Pile / Total Weight	120 oz. / 146 oz.
Backing	13PP/18PET 2pt / 20 oz Black PU
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	-
Features	UV Stabilizers, HeatBlock
Test Data	CAL 1350, ASTM D2859

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TEE STRIKE

Primary Yarn Polymer	Nylon
Yarn Cross Section	Textured Diamond
Standard Color	Verde
Fabric Construction	Tufted
Second Yarn Polymer Thatch	-
Secondary Yarn Color	-

Primary Backing	13PP/18PET 2pt
Coating Type	20 oz Black PU
PE Yarn Denier / Ends	7,000 / 8
Texturized Thatch Denier / Ends	-
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1	inches	D-5823
Face Weight	120	oz/yd^2	D-5848
Total Fabric Weight	146	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	20	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	7,000	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Guage	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	-		-
Fabric Width	6 & 12	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



TEE STRIKE+

Tee Strike+ combines style and functionality with dense, multi-colored, 100% nylon blades that reduce club head drag for smoother swings. Built to handle repetitive use, it provides durability and a natural look, making it perfect for driving ranges, simulators, and backyard set-ups. Designed for performance, this turf enhances your practice routine with consistancy and reliability.

SKU	TPLUS
Grass Zone Yarn/Color	Nylon / Field Green/Lime/Olive/Dark Green
Grass Zone Denier	6,500 / 8
Thatch Zone Yarn/Color	Nylon / Lime Green/Beige
Thatch Zone Denier	4,700 / 8
Grass Zone Yarn Shape	Lens
Finished Pile Height	1"
Finished Pile / Total Weight	117 oz. / 154 oz.
Backing	100% PP / 30 oz Black PU
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	-
Features	UV Stabilizers, HeatBlock
Test Data	

- LIMITED LIFETIME WARRANTY
- NYLON FIBERS FOR UNMATCHED DURABILITY
- HOLDS GOLF TEES IN TEE LINES & MATS
- IDEAL FOR DRIVING RANGES & SIMULATORS

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TEE STRIKE+

Primary Yarn Polymer	Nylon
Yarn Cross Section	Lens
Standard Color	Field Green/Lime/Olive/ Dark Green
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Nylon
Secondary Yarn Color	Lime Green/Beige

Primary Backing	100% PP
Coating Type	30 oz Black PU
PE Yarn Denier / Ends	6,500 / 8
Texturized Thatch Denier / Ends	4,700 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1	inches	D-5823
Face Weight	117	oz/yd^2	D-5848
Total Fabric Weight	154	oz/yd^2	D-5848
Primary Backing Weight	7	oz/yd^2	D-5848
Secondary Coating Weight	30	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	11,200	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Guage	3/16	inches	D-5793
Flammability	-	-	-
Water Permeability	-		-
Fabric Width	6 & 12	ft	-

SYNLAWN®
Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



PET PLATINUM

Offering superior drainage and unmatched durability, Pet Platinum stands out as the top choice for high-traffic pet areas like residential yards, commercial pet facilities, and agility spaces. Designed for reliability and resilience it provides a clean, safe, and comfortable surface for a wide range of pet applications where performance truly matters.

SKU	PTPLB
Grass Zone Yarn/Color	PE / Field Green / Apple
Grass Zone Denier	10,800/6
Thatch Zone Yarn/Color	PE / Field Green / Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ C
Finished Pile Height	1 1/2"
Finished Pile / Total Weight	100 oz. / 128 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	EN 12616, CAL1350, ASTM C518, ASTM D7138, ASTM E108, ASTM F1292, ASTM F1951, ASTM F2765, EN-71, RCRA 8 TCLP

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- **2X** THE DRAINAGE CAPABILITIES
- USE IN ALL CLIMATES AND REGIONS
- IDEAL FOR HEAVY USE PET AREAS

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 64%

Pet Platinum is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

PETS

SYNLAWN® | TGL SoFi

Official Synthetic Surface

MADE IN U. S. A.

IPEMA CERTIFIED ASTM F1292

Sanitized Actifresh

SYNLAWN®

Official Synthetic Surface

PET PLATINUM

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ C
Standard Color	Field Green/Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800/6
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/2	inches	D-5823
Face Weight	100	oz/yd^2	D-5848
Total Fabric Weight	128	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



PET PREMIUM

Designed with pets in mind, Pet Premium features double the drainage capacity for superior cleanliness and comfort. Perfect for pet play and agility, this turf is safe for animals of all sizes and well-suited for both residential and commercial applications. .

SKU	PTPRB
Grass Zone Yarn/Color	PE / Field Green/Apple
Grass Zone Denier	10,800/6
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ C
Finished Pile Height	1 1/2"
Finished Pile / Total Weight	80 oz. / 108 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	EN 12616, CAL1350, ASTM D2859, ASTM D7138, ASTM E108, ASTM F1292, ASTM F1951, ASTM F2765, EN-71, RCRA 8 TCLP, BS EN 13746

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- **2X** THE DRAINAGE CAPABILITIES
- USE IN ALL CLIMATES AND REGIONS
- FOR MOST PET SIZES AND BREEDS

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 72%

Pet Premium is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

PETS

SYNLAWN® | TGL SoFi

Official Synthetic Surface

MADE IN U. S. A.

IPEMA CERTIFIED ASTM F1292

Sanitized Actifresh

SYNLAWN®

Official Synthetic Surface

PET PREMIUM

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ C
Standard Color	Field Green/Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800/6
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/2	inches	D-5823
Face Weight	80	oz/yd²	D-5848
Total Fabric Weight	108	oz/yd²	D-5848
Primary Backing Weight	6	oz/yd²	D-5848
Secondary Coating Weight	22	oz/yd²	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



PLAY PLATINUM

Our ultra-durable surface for playgrounds and areas with high volumes of foot traffic. Super Yarn™ technology makes this turf safe for kids of all ages with heat-reflective, anti-static, Sanitized®, and non-abrasive grass blades.

SKU	PLPLB
Grass Zone Yarn/Color	PE / Field Green/Apple
Grass Zone Denier	10,800/6
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ C
Finished Pile Height	1 1/2"
Finished Pile / Total Weight	100 oz. / 128 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches per /hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	EN 12616, CAL1350, ASTM C518, ASTM D7138, ASTM E108, ASTM F1292, ASTM F1951, ASTM F2765, EN-71, RCRA 8 TCLP

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 1,000" P/HR
- USE IN ALL CLIMATES AND REGIONS
- IDEAL FOR HIGH-TRAFFIC PLAY AREAS

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 64%

Play Platinum is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

PLAY

MULTI-USE

SYNLAWN® | TGL SoFi

Official Synthetic Surface

MADE IN U. S. A.

IPEMA CERTIFIED ASTM F1292

Sanitized Actifresh

SYNLAWN®

TGL SoFi

Official Synthetic Surface

PLAY PLATINUM

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ C
Standard Color	Field Green/Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800/6
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/2	inches	D-5823
Face Weight	100	oz/yd^2	D-5848
Total Fabric Weight	128	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



PLAY PREMIUM

Reliable and durable with built-in Super Yarn™ Technology, this playground turf is made for all day play and designed to give parents peace of mind, all while maintaining its natural appearance.

SKU	PLPRB
Grass Zone Yarn/Color	PE / Field Green/Apple
Grass Zone Denier	10,800/6
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ C
Finished Pile Height	1 1/2"
Finished Pile / Total Weight	80 oz. / 108 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	EN 12616, CAL1350, ASTM D2859, ASTM D7138, ASTM E108, ASTM F1292, ASTM F1951, ASTM F2765, EN-71, RCRA 8 TCLP, BS EN 13746

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 1,000" P/HR
- USE IN ALL CLIMATES AND REGIONS
- IDEAL FOR ALL PLAY APPLICATIONS

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 72%

Play Premium is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

PLAY

MULTI-USE

SYNLAWN® | TGL SoFi

Official Synthetic Surface

MADE IN U. S. A.

IPEMA CERTIFIED ASTM F1292

Sanitized Actifresh

SYNLAWN®

TGL SoFi

Official Synthetic Surface

PLAY PREMIUM

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ C
Standard Color	Field Green/Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800/6
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/2	inches	D-5823
Face Weight	80	oz/yd²	D-5848
Total Fabric Weight	108	oz/yd²	D-5848
Primary Backing Weight	6	oz/yd²	D-5848
Secondary Coating Weight	22	oz/yd²	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS

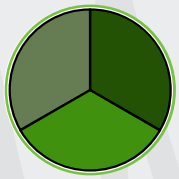


ROOFDECK PLATINUM

Nylon fibers provide a high melt-resistance against window reflectivity, along with an ASTM CERTIFIED E108 CLASS A FIRE-RATING for the highest level of safety and security. Ideal for rooftops, decks, and patios, indoors or out.

SKU	SR200 / RDPL7 / RDPL6
Grass Zone Yarn/Color	Nylon / 3 Colors Available
Grass Zone Denier	5,400/9
Thatch Zone Yarn/Color	Nylon / Corresponds with Turf Color
Thatch Zone Denier	5,400/9
Grass Zone Yarn Shape	Diamond Mono
Finished Pile Height	1 1/8"
Finished Pile / Total Weight	60 oz. / 88 oz.
Backing	18/18 pic PP 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 500 inches p/hr
Features	EnviroLoc+™, UV Stabilizers
Test Data	ASTM C518, ASTM D2859, ASTM D7138, ASTM E-108, ASTM E1908, ASTM E648, ASTM E84, EN-71, ASTM F1292, ASTM F1551, ASTM F1951, ASTM F2765

3 COLORS AVAILABLE



SKU / GRASS COLOR	THATCH COLOR
SR200 / FIELD GREEN	FIELD GREEN
RDPL7 / SPORT GREEN/APPLE/OLIVE	FIELD GREEN/BEIGE
RDPL6 / SPORT GREEN/APPLE/TAN	FIELD GREEN/BEIGE

- ASTM E108 CLASS A FIRE RATING
- LIMITED LIFETIME WARRANTY
- UV PROTECTED FROM REFLECTING LIGHT
- IDEAL FOR ROOFTOPS AND DECKS

ROOF

SYNLAWN® | TGL SoFi

Official Synthetic Surface

MADE IN U. S. A.

SYNLAWN®

TGL SoFi

Official Synthetic Surface

ROOFDECK PLATINUM

Primary Yarn Polymer	Nylon
Yarn Cross Section	Diamond Mono
Standard Color	3 Colors Available
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Nylon
Secondary Yarn Color	Corresponds with Turf Color

Primary Backing	18/18 pic PP 2pt
Coating Type	22 oz. EnviroLoc+
Yarn Denier / Ends	5,400/9
Texturized Thatch Denier / Ends	5,400/9
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/8	inches	D-5823
Face Weight	60	oz/yd^2	D-5848
Total Fabric Weight	88	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	12,600	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 500	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



ROOFDECK PREMIUM

With an ASTM E-108 CLASS A FIRE RATING, this is the ideal turf for even the most demanding roof applications. Featuring the safety and benefits of Super Yarn™ Technology, this grass style will beautify any space while meeting the strictest safety code.

SKU	RFPRB
Grass Zone Yarn/Color	PE / Sport Green / Apple / Olive
Grass Zone Denier	9,900/9
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ U
Finished Pile Height	1 5/8"
Finished Pile / Total Weight	100 oz./128 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	EN 12616, ASTM C518, CAL1350, ASTM D2859, ASTM D7138, ASTM E108, ASTM E648, ASTM E903, ASTM F1292, ASTM F1951, ASTM D2765, EN71, RCRA 8 TCLP, BS EN 13746

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- ASTM E108 CLASS A FIRE RATING
- LIMITED LIFETIME WARRANTY
- BIOMIMETIC™ TECHNOLOGY
- SAFE FOR COMMERCIAL USE

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 67%

Roofdeck Premium is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

ROOF

SYNLAWN® | TGL SoFi

Official Synthetic Surface

MADE IN U. S. A.

IPEMA CERTIFIED ASTM F1292

Sanitized Actifresh

SYNLAWN®

ROOFDECK PREMIUM

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ U
Standard Color	Sport Green/Apple/Olive
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13 PP/18 PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	9,900/9
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 5/8	inches	D-5823
Face Weight	100	oz/yd^2	D-5848
Total Fabric Weight	128	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	14,900	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNACCESS

Designed to meet ADA, DOJ, and Access Board standards, SYNAccess combines low-pile, non-directional fibers with SmartWeave™ Technology for superior accessibility and usability. Its advanced backing ensures unrivaled drainage, keeping surfaces safe and functional, even after heavy rain.

SKU	SWN33
Grass Zone Yarn/Color	PE / Field Green / Apple / Dark Green
Grass Zone Denier	6,800 / 8
Thatch Zone Yarn/Color	PP / Olive Green / Beige
Thatch Zone Denier	3,500 / 8
Grass Zone Yarn Shape	S Shape Mono
Finished Pile Height	1/2"
Finished Pile / Total Weight	33 oz. / 62 oz.
Backing	SmartWeave / PCR Spray Coat
Tuft Gauge	N/A
Tuft Bind	> 9 lbs.
Permeability	> 6,500 inches p/hr
Features	Deluster, UV Stabilizers
Test Data	EN 12616, ASTM F1951, ASTM D5034-09, ASTM D1335-05

- LIMITED LIFETIME WARRANTY
- NON-DIRECTIONAL GRASS BLADES
- SUPERIOR DRAINAGE
- ADA COMPLIANT

PCR MATERIAL

SMARTWEAVE™

LANDSCAPE PETS PLAY ROOF MULTI-USE

SYNLAWN® | TGL SoFi

Official Synthetic Surface

MADE IN U. S. A.

SYNLAWN®

TGL SoFi

Official Synthetic Surface

SYNACCESS

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	S Shape Mono
Standard Color	Field Green / Apple / Dark Green
Fabric Construction	Woven
Second Yarn Polymer Thatch	Polypropylene

Primary Backing	SmartWeave
Coating Type	PCR Spray Coat
PE Yarn Denier / Ends	6,800 / 8
Texturized Thatch Denier / Ends	3,500 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1/2"	inches	D-5823
Face Weight	33	oz/yd^2	D-5848
Total Fabric Weight	62	oz/yd^2	D-5848
Primary Backing Weight	25	oz/yd^2	D-5848
Secondary Coating Weight	6-9	oz/yd^2	D-5848
Tuft Bind	> 9	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	10,300	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	-	inches	D-5793
Flammability	-	-	-
Water Permeability	> 6,500	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



SYNAUGUSTINE 347

This ultra-soft turf with multi-colored blades and Super Yarn™ Technology offers durability, comfort, and antimicrobial protection, ideal for natural landscapes.

SKU	S347B
Grass Zone Yarn/Color	PE / Sport Green/Apple/Olive
Grass Zone Denier	9,900/9
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ U
Finished Pile Height	1 7/8"
Finished Pile / Total Weight	75 oz. / 103 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuf Bind	> 8 lbs.
Permeability	> 800 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	EN 12616, CAL1350, ASTM D2859, ASTM D7138, ASTM E108, ASTM E648, ASTM E84, ASTM F1292, ASTM F1551, ASTM F1951, ASTM F2765, EN-71, RCRA 8 TCLP

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE >800" P/H
- BIOMIMETIC™ TECHNOLOGY
- SAFE FOR CHILDREN AND PETS

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 71%

SYNAugustine 347 is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

LANDSCAPE PETS PLAY MULTI-USE

SYNLAWN® | TGL SoFi

Official Synthetic Surface

MADE IN U. S. A.

Sanitized Actifresh

SYNLAWN®

Official Synthetic Surface

SYNAUGUSTINE 347

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ U
Standard Color	Sport Green/Apple/Olive
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	9,900/9
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 7/8	inches	D-5823
Face Weight	75	oz/yd^2	D-5848
Total Fabric Weight	103	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	14,900	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	>800	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



SYNAUGUSTINE 547

SYNAugustine 547, a USDA Certified Bio-Based turf, combines Super Yarn™ Technology with renewable sugarcane for durability and eco-friendliness. With soft, vibrant multi-tone blades, it's a stunning, sustainable, and cost-effective landscaping solution.

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 800" P/HR
- BIOMIMETIC™ TECHNOLOGY
- MADE WITH SOYBEANS + SUGARCANE

SKU	S547B
Grass Zone Yarn/Color	PE / Sport Green/Apple/Olive
Grass Zone Denier	9,900/9
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ U
Finished Pile Height	1 3/8"
Finished Pile / Total Weight	50 oz. / 78 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 800 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	EN 12616, CAL1350, ASTM D2859, ASTM D7138, ASTM E108, ASTM E648, ASTM F1015, ASTM F1292, ASTM F1551, ASTM F2765, EN-71, RCRA 8 TCLP

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 70%

SYNAugustine 547 is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

LANDSCAPE PETS PLAY MULTI-USE

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SYNAUGUSTINE 547

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ U
Standard Color	Sport Green/Apple/Olive
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	9,900/9
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 3/8	inches	D-5823
Face Weight	50	oz/yd^2	D-5848
Total Fabric Weight	78	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	14,900	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	>800	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



SYNAUGUSTINE 847

A robust and highly durable artificial turf with a low pile height, tightly knit thatch, and realistic grass blades enhanced by Super Yarn™ Technology. SYNAugustine 847 is designed for heavy use, making it an ideal choice for homeowners, commercial facilities, and golfers seeking reliable, low-maintenance turf with a natural look and feel.

SKU	SA847B
Grass Zone Yarn/Color	PE / Sport Green/Apple/Olive
Grass Zone Denier	9,900/9
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ U
Finished Pile Height	1 1/4"
Finished Pile / Total Weight	80 oz./108 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	CAL1350, ASTM D2859, ASTM D7138, ASTM E108, ASTM F1292, ASTM F1951, ASTM F2765, EN-71, RCRA 8 TCLP

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE >1,000" P/HR
- BIOMIMETIC™ TECHNOLOGY
- PLANT-BASED ENVIROLOC+™ BACKING

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 67%

SYNAugustine 847 is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

LANDSCAPE PETS PLAY GOLF

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SYNAUGUSTINE 847

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ U
Standard Color	Sport Green/Apple/Olive
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	9,900/9
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/4"	inches	D-5823
Face Weight	80	oz/yd^2	D-5848
Total Fabric Weight	108	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	14,900	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



SYNAUGUSTINE X47

A top-selling turf that stands out with its perfect balance of softness, safety, and durability. Designed with Super Yarn™ Technology, its multi-colored blades and dense thatch create a lush, natural appearance while offering exceptional resilience. Ideal for high-traffic areas, this is the ultimate choice for those seeking beauty and performance in one.

SKU	SX47B
Grass Zone Yarn/Color	PE / Sport Green/Apple/Olive
Grass Zone Denier	9,900/9
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ U
Finished Pile Height	1 5/8"
Finished Pile / Total Weight	100 oz. /128 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	EN 12616, ASTM C518, CAL1350, ASTM D2859, ASTM D7138, ASTM E108, ASTM E648, ASTM E903, ASTM F1292, ASTM F1951, ASTM D2765, EN71, RCRA 8 TCLP, BS EN 13746

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 1,000" P/HR
- BIOMIMETIC™ TECHNOLOGY
- SAFE FOR CHILDREN AND PETS

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 67%

SYNAugustine X47 is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

LANDSCAPE PETS PLAY ROOF

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SYNAUGUSTINE X47

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ U
Standard Color	Sport Green/Apple/Olive
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	9,900/9
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 5/8	inches	D-5823
Face Weight	100	oz/yd^2	D-5848
Total Fabric Weight	128	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	14,900	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNBLUE 545

SYNBlue 545 offers a perfect blend of realism and durability, featuring soft, multi-colored turf fibers with a natural thatch for added depth and authenticity. With antimicrobial protection and superior drainage, this low-maintenance turf ensures lasting beauty and performance, making it an ideal choice for residential or commercial landscapes.

SKU	BL545
Grass Zone Yarn/Color	PE / Field Green/Olive/Tan
Grass Zone Denier	10,500/7
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	S+W+Diamond
Finished Pile Height	1 1/2"
Finished Pile / Total Weight	55 oz./84 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 400 inches p/hr
Features	Sanitized®, EnviroLoc+™
Test Data	EN 12616, CAL1350, ASTM D2859, ASTM E648, ASTM F1292, ASTM F1951, EN-71, RCRA 8 TCLP

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE >400" P/HR
- SANITIZED® ANTIMICROBIAL PROTECTION
- IDEAL FOR LAWN AND LANDSCAPE APPLICATIONS

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SYNBLUE 545

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	S+W+Diamond
Standard Color	Field Green/Olive/Tan
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

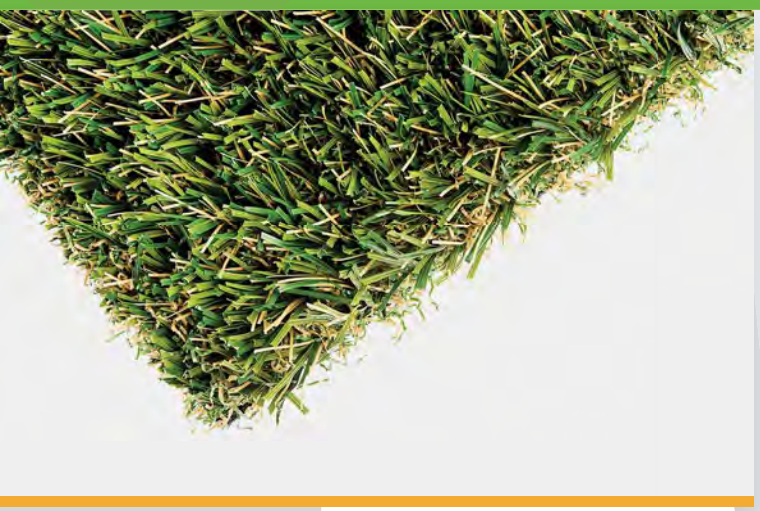
Primary Backing	13PP/18 PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,500/7
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/2	inches	D-5823
Face Weight	55	oz/yd^2	D-5848
Total Fabric Weight	84	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,500	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 400	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNBLUE 745

SYNBlue 745 delivers unmatched realism with soft, multi-colored turf blades that replicate natural grass. Engineered for residential and commercial landscapes, this durable, low-maintenance turf offers superior drainage, antimicrobial protection, and lasting aesthetic appeal.

SKU	BL745
Grass Zone Yarn/Color	PE / Field Green/Olive/Tan
Grass Zone Denier	10,500/7
Thatch Zone Yarn/Color	PE / Field Green /Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	S+W+Diamond
Finished Pile Height	2"
Finised Pile / Total Weight	75 oz. / 104 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 400 inches p/hr
Features	Sanitized®, EnviroLoc+™
Test Data	EN 12616, CAL1350, ASTM D2859, ASTM E648, ASTM F1292, ASTM F1951, EN-71, RCRA 8 TCLP

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE >400" P/HR
- SANITIZED® ANTIMICROBIAL PROTECTION
- IDEAL FOR LAWN AND LANDSCAPE APPLICATIONS

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SYNBLUE 745

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	S+W+Diamond
Standard Color	Field Green/Olive/Tan
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22oz. EnviroLoc+
PE Yarn Denier/Ends	10,500/7
Texturized Thatch Denier/Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	2	inches	D-5823
Face Weight	75	oz/yd^2	D-5848
Total Fabric Weight	104	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,500	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	>400	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNPRO BOCCE TRI

Created to be the ideal surface for Bocce Ball Courts with consistent true ball roll, minimal bounce, excellent drainage, and extremely low maintenance. Its remarkable stability and beautiful aesthetic makes it the perfect choice for Bocce Courts of all play levels.

SKU	BOCC2
Grass Zone Yarn/Color	Nylon / Sport Green/Apple/Olive
Grass Zone Denier	4,200 / 8
Thatch Zone Yarn/Color	-
Thatch Zone Denier	-
Grass Zone Yarn Shape	Textured Diamond
Finished Pile Height	7/8"
Finished Pile / Total Weight	53 oz. / 81 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	> 400 inches p/hr
Features	EnviroLoc+™ UV Stabilizers
Test Data	ASTM F1292, EN16717, EN 12234

- LIMITED LIFETIME WARRANTY
- IDEAL SURFACE FOR BOCCE COURTS
- CONSISTENT BALL-ROLL PERFORMANCE
- COLOR-FAST YARNS + UV PROTECTION

INSTALLATION DETAILS AVAILABLE AT
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BOCCE

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SYNPRO BOCCE TRI

Primary Yarn Polymer	Nylon
Yarn Cross Section	Textured Diamond
Standard Color	Sport Green/Apple/Olive
Fabric Construction	Tufted
Second Yarn Polymer Thatch	-
Secondary Yarn Color	-

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	4,200 / 8
Texturized Thatch Denier / Ends	-
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	7/8	inches	D-5823
Face Weight	53	oz/yd^2	D-5848
Total Fabric Weight	81	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	4,200	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 400	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNBOCCE

Specifically designed for Bocce Ball courts, SYNBocce delivers true ball roll, minimal bounce, and excellent drainage for consistent play. Crafted from 100% nylon, this turf offers remarkable stability, durability, and low maintenance. Its beautiful aesthetic makes it the ideal choice for Bocce courts at any skill level, from casual games to professional play.

SKU	BOCCE
Grass Zone Yarn/Color	Nylon / Verde
Grass Zone Denier	4,200 / 8
Thatch Zone Yarn/Color	-
Thatch Zone Denier	-
Grass Zone Yarn Shape	Textured Diamond
Finished Pile Height	7/8"
Finished Pile / Total Weight	53 oz. / 81 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	> 400 inches p/hr
Features	EnviroLoc+™ UV Stabilizers
Test Data	ASTM F1292, EN16717, EN 12234

- LIMITED LIFETIME WARRANTY
- IDEAL SURFACE FOR BOCCE COURTS
- CONSISTENT BALL-ROLL PERFORMANCE
- COLOR-FAST YARNS + UV PROTECTION

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BOCCE

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SYNBOCCE

Primary Yarn Polymer	Nylon
Yarn Cross Section	Textured Diamond
Standard Color	Verde
Fabric Construction	Tufted
Second Yarn Polymer Thatch	-
Secondary Yarn Color	-

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	4,200 / 8
Texturized Thatch Denier / Ends	-
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	7/8	inches	D-5823
Face Weight	53	oz/yd^2	D-5848
Total Fabric Weight	81	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	4,200	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 400	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNCANINE

Engineered for pets and heavy use, SYNCanine features SmartWeave™ Technology, delivering unmatched drainage through its innovative backing design. Combined with non-directional fibers for a natural look and enhanced durability, this turf is ideal for creating reliable, low-maintenance, and pet-friendly spaces.

SKU	SWN60
Grass Zone Yarn/Color	PE / Field Green / Apple / Dark Green
Grass Zone Denier	6,800 / 8
Thatch Zone Yarn/Color	PP / Olive Green / Beige
Thatch Zone Denier	3,500 / 8
Grass Zone Yarn Shape	S Shape Mono
Finished Pile Height	1 1/4"
Finished Pile/ Total Weight	60 oz. / 89 oz.
Backing	SmartWeave / PCR Spray Coat
Tuft Gauge	N/A
Tuft Bind	> 12 lbs.
Permeability	> 5,500 inches p/hr
Features	Deluster, UV Stabilizers
Test Data	EN 12616, ASTM F1951, ASTM D5034-09, ASTM D1335-05

- LIMITED LIFETIME WARRANTY
- NON-DIRECTIONAL GRASS BLADES
- SUPERIOR DRAINAGE
- EXCEPTIONAL DIMENSIONAL STABILITY

PCR MATERIAL

SMARTWEAVE™

PETS

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SYNCANINE

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	S Shape Mono
Standard Color	Field Green / Apple / Dark Green
Fabric Construction	Woven
Second Yarn Polymer Thatch	Polypropylene
Secondary Yarn Color	Olive Green / Beige

Primary Backing	SmartWeave
Coating Type	PCR Spray Coat
PE Yarn Denier / Ends	6,800 / 8
Texturized Thatch Denier / Ends	3,500 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/4	inches	D-5823
Face Weight	60	oz/yd^2	D-5848
Total Fabric Weight	89	oz/yd^2	D-5848
Primary Backing Weight	25	oz/yd^2	D-5848
Secondary Coating Weight	6-9	oz/yd^2	D-5848
Tuft Bind	> 12	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	10,300	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	-	-	-
Flammability	-	-	-
Water Permeability	> 5,500	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNFESCUE 60

Experience the perfect blend of realism and elegance with one of our top-selling turf styles, ideal for both residential lawns and commercial landscaping projects. Enjoy the beauty and sophistication it brings to any outdoor space.

SKU	FES60
Grass Zone Yarn/Color	PE / Field Green/Apple
Grass Zone Denier	10,800/6
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	C/S
Finished Pile Height	1 1/2"
Finished Pile / Total Weight	60 oz./88 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 400 inches p/hr
Features	EnviroLoc+™, Deluster, UV Stabilizers
Test Data	ASTM F1951, ASTM F1551, ASTM F1292, ASTM D2859, BS EN 13746

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 400" P/HR
- HEATBLOCK TECHNOLOGY
- IDEAL FOR NATURAL LAWN AESTHETICS

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IPEMA CERTIFIED ASTM F1292

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SYNFESCUE 60

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	C/S
Standard Color	Field Green/Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800/6
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/2	inches	D-5823
Face Weight	60	oz/yd^2	D-5848
Total Fabric Weight	88	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 400	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNFESCUE 80

An ideal solution for residential lawns and low-traffic commercial landscapes, SYNFescue 80's multi-colored grass blades offer a realistic look with minimal maintenance. Designed with HeatBlock technology, this turf stays cooler underfoot while delivering superior durability.

SKU	FES80
Grass Zone Yarn/Color	PE / Field Green / Apple
Grass Zone Denier	10,800 / 6
Thatch Zone Yarn/Color	PE / Beige / Brown
Thatch Zone Denier	5,000 / 8
Grass Zone Yarn Shape	C / S
Finished Pile Height	1 3/4"
Finished Pile / Total Weight	80 oz. / 108 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 400 inches p/hr
Features	EnviroLoc+™, Deluster, UV Stabilizers
Test Data	ASTM F1292, ASTM F1951, ASTM D2859

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 400" P/HR
- HEATBLOCK TECHNOLOGY
- IDEAL FOR NATURAL LAWN AESTHETICS

INSTALLATION DETAILS AVAILABLE AT

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LANDSCAPE PETS PLAY

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SYNFESCUE 80

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	C / S
Standard Color	Field Green / Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Beige / Brown

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800/6
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 3/4	inches	D-5823
Face Weight	80	oz/yd^2	D-5848
Total Fabric Weight	108	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 400	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



SYNFESCUE 343

Offering superior dimensional strength and stability while remaining easy on the eyes and wallet. Incorporating Super Yarn™ technology, this landscape grass offers extreme flexibility and durability, creating the perfect solution for multiple applications.

SKU	SF34B
Grass Zone Yarn/Color	PE / Field Green/Apple
Grass Zone Denier	10,800/6
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ C
Finished Pile Height	2"
Finished Pile / Total Weight	80 oz. / 108 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	ASTM D2859, ASTM D7138, ASTM E108, ASTM E648, ASTM F1951, ASTM F2765

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- ASTM E108 CLASS A FIRE RATING
- OPTIMAL DRAINAGE > 1,000" P/HR
- EXCLUSIVE ENVIROLOC+™ BACKING
- LIMITED LIFETIME WARRANTY

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SYNFESCUE 343

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ C
Standard Color	Field Green/Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13 PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800/6
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	2	inches	D-5823
Face Weight	80	oz/yd²	D-5848
Total Fabric Weight	108	oz/yd²	D-5848
Primary Backing Weight	6	oz/yd²	D-5848
Secondary Coating Weight	22	oz/yd²	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNNATURAL 35

This contractor-grade artificial grass creates lush, full lawns with a soft, natural feel. Featuring higher blades and sun-tanned fibers, it replicates the authentic look of a summer lawn while offering exceptional durability. Its wild, voluminous texture suits a range of spaces, from family-friendly gardens to ornamental and decorative landscapes. Perfect for those seeking a low-maintenance yet vibrant and natural aesthetic.

SKU	SYN35
Grass Zone Yarn/Color	PE / Field Green / Olive
Grass Zone Denier	4,000 / 8
Thatch Zone Yarn/Color	PE / Field Green / Beige
Thatch Zone Denier	3,600 / 12
Grass Zone Yarn Shape	Diamond Mono
Finished Pile Height	1 3/16"
Finished Pile / Total Weight	35 oz. / 61 oz.
Backing	PP Cloth + Mesh / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 300 inches p/hr
Features	EnviroLoc+™, HeatBlock, Deluster, UV Stabilizers
Test Data	

- LIMITED LIFETIME WARRANTY
- PATENTED MULTI-DIRECTIONAL DESIGN
- CONTRACTOR-GRADE MATERIAL
- SAFE FOR CHILDREN AND PETS

MULTI-DIRECTIONAL

LANDSCAPE PETS PLAY

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SYNNATURAL 35

Primary Yarn Polymer	Polyethylene
Primary Yarn Cross Section	Diamond Mono
Primary Yarn Color	Field Green / Olive
Fabric Construction	Tufted
Semi-Texturized Yarn Polymer	Polyethylene
Semi-Texturized Yarn Color	Dark Green / Lime
Thatch Yarn Polymer	Polyethelyne
Thatch Yarn Color	Field Green / Biege

Primary Backing	PP Cloth + Mesh
Coating Type	22 oz. EnviroLoc+
Primary Yarn Denier / Ends	4,000 / 8
Semi-Texturized Denier / Ends	4,200 / 6
Thatch Denier / Ends	3,600 / 12
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 3/16	inches	D-5823
Face Weight	35	oz/yd^2	D-5848
Total Fabric Weight	61	oz/yd^2	D-5848
Primary Backing Weight	5	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	11,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	-	-	-
Water Permeability	> 300	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNNATURAL 55

SYNNatural 55 delivers professional-quality artificial grass, perfect for enhancing residential and commercial spaces. Crafted with smooth, multi-directional fibers, it replicates the lush, natural feel of real grass while offering exceptional durability and low maintenance. This contractor-grade turf is a versatile and reliable solution for creating stunning, long-lasting landscapes.

SKU	SYN55
Grass Zone Yarn/Color	PE / Field Green / Olive
Grass Zone Denier	6,800 / 8
Thatch Zone Yarn/Color	PE / Field Green / Beige
Thatch Zone Denier	7,000 / 16
Grass Zone Yarn Shape	Wave Mono
Finished Pile Height	1 3/4"
Finished Pile / Total Weight	55 oz. / 82 oz.
Backing	PP Cloth + Mesh / 22oz. EnviroLoc+™
Tuft Gauge	5/8"
Tuft Bind	> 8 lbs.
Permeability	> 300 inches p/hr
Features	EnviroLoc+™, HeatBlock, Deluster, UV Stabilizers
Test Data	

- LIMITED LIFETIME WARRANTY
- PATENTED MULTI-DIRECTIONAL DESIGN
- CONTRACTOR-GRADE MATERIAL
- SAFE FOR CHILDREN AND PETS

MULTI-DIRECTIONAL

LANDSCAPE PETS PLAY

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SYNNATURAL 55

Primary Yarn Polymer	Polyethylene
Primary Yarn Cross Section	Wave Mono
Primary Yarn Color	Field Green / Olive
Fabric Construction	Tufted
Semi-Texturized Yarn Polymer	Polyethylene
Semi-Texturized Yarn Color	Field Green / Lime
Thatch Yarn Polymer	Polyethelyne
Thatch Yarn Color	Field Green / Biege

Primary Backing	PP Cloth + Mesh
Coating Type	22 oz. EnviroLoc+
Primary Yarn Denier / Ends	6,800 / 8
Semi-Texturized Denier / Ends	4,800 / 6
Thatch Denier / Ends	7,000 / 16
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 3/4	inches	D-5823
Face Weight	55	oz/yd^2	D-5848
Total Fabric Weight	82	oz/yd^2	D-5848
Primary Backing Weight	5	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	18,600	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	5/8	inches	D-5793
Flammability	-	-	-
Water Permeability	> 300	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNNATURAL 60 GTR

SYNNatural 60 GTR represents the pinnacle of turf innovation. Its multi-directional technology blends straight and semi-texturized fibers for a realistic, natural appearance, enhanced by reduced sheen. Crafted with 70% renewable content, it is made of both plant-based and PCR materials. This turf delivers unparalleled authenticity, setting a new standard in landscape design.

SKU	GTR60
Grass Zone Yarn/Color	PE / Sport Green / Olive
Grass Zone Denier	7,200 / 8
Thatch Zone Yarn/Color	PE/PP Blend / Green / Tan
Thatch Zone Denier	5,000 / 8
Grass Zone Yarn Shape	Diamond Mono
Finished Pile Height	2"
Finished Pile / Total Weight	60 oz. / 89 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 300 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers
Test Data	

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- ENVIROLOC+™ BACKING SYSTEM
- ULTRA-REALISTIC COLOR BLEND
- PATENTED MULTI-DIRECTIONAL DESIGN

PCR MATERIAL

MULTI-DIRECTIONAL

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SYNNATURAL 60 GTR

Primary Yarn Polymer	Polyethylene
Primary Yarn Cross Section	Diamond Mono
Primary Yarn Color	Sport Green / Olive
Fabric Construction	Tufted
Semi-Texturized Yarn Polymer	Polyethylene
Semi-Texturized Yarn Color	Field Green / Lime
Thatch Yarn Polymer	PE / PP Blend
Thatch Yarn Color	Green / Tan

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
Primary Yarn Denier / Ends	7,200 / 8
Semi-Texturized Denier / Ends	7,200 / 8
Thatch Yarn Denier / Ends	5,000 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	2	inches	D-5823
Face Weight	60	oz/yd^2	D-5848
Total Fabric Weight	89	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	19,400	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	-	-	-
Water Permeability	> 300	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNPLAY 48 (NO PAD)

Add a burst of color and fun to any space with this low-pile, low-friction turf ideal for activity and agility zones. With several colors to choose from, this turf style adds color to any indoor or outdoor application.



7 COLORS IN-STOCK

BLACK | FL BLUE | GREEN | GREY | RED | RED CLAY | WHITE

ASK ABOUT CUSTOM COLORS & DESIGNS

- LIMITED LIFETIME WARRANTY
- SAFE, SOFT, DURABLE SURFACE
- UV PROTECTION + DELUSTER
- FOR DAYCARE, GYMS AND TRAINING FACILITIES

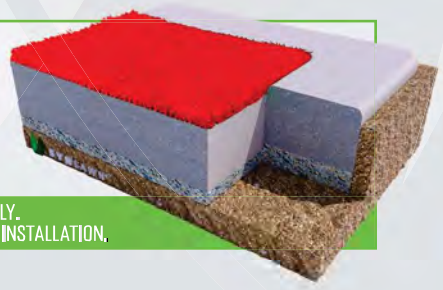
SKU	SYN48 (No Pad)
Grass Zone Yarn	Polyethylene
Grass Zone Denier	5,400 / 8
Thatch Zone Yarn/Color	-
Thatch Zone Denier	-
Grass Zone Yarn Shape	Textured Diamond
Finished Pile Height	3/4"
Finished Pile / Total Weight	48 oz. / 74 oz.
Backing	13PP/18PET 2pt / 16oz Black PU
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	-
Features	Deluster, UV Stabilizers
Test Data	ASTM D2859, ASTM E648, ASTM F1292, ASTM F1951

INSTALLATION DETAILS AVAILABLE AT

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SYNPLAY 48 (NO PAD)

Primary Yarn Polymer	Polyethylene	Primary Backing	13PP/18PET 2pt
Yarn Cross Section	Textured Diamond	Coating Type	16 oz Black PU
Standard Color	7 Colors In Stock	PE Yarn Denier / Ends	5,400 / 8
Fabric Construction	Tufted	Texturized Thatch Denier / Ends	-
Second Yarn Polymer Thatch	-	Warranty Period	Limited Lifetime
Secondary Yarn Color	-		

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	3/4	inches	D-5823
Face Weight	48	oz/yd^2	D-5848
Total Fabric Weight	74	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	16	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	5,400	Denier	D-1577
Elongation to Break	> 60	%	D-2256
Yarn Breaking Strength	> 19	lbs.	D-5793
Machine Gauge	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	-		-
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNPLAY 48 (+PAD)

This vibrant, colorful turf with a low-pile, low-friction surface is perfect for indoor activity and agility zones. Designed for durability and easy maintenance, it provides a consistent, high-performance surface for a variety of applications.



7 COLORS IN-STOCK

BLACK | FL BLUE | GREEN | GREY | RED | RED CLAY | WHITE

ASK ABOUT CUSTOM COLORS & DESIGNS

- LIMITED LIFETIME WARRANTY
- 5MM CUSHION ATTACHED
- SAFE, SOFT, DURABLE SURFACE
- FOR DAYCARE, GYMS AND TRAINING FACILITIES

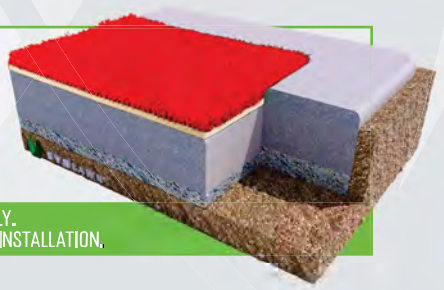
SKU	SYN48 (+PAD)
Grass Zone Yarn	Polyethylene
Grass Zone Denier	5,400 / 8
Thatch Zone Yarn/Color	-
Thatch Zone Denier	-
Grass Zone Yarn Shape	Textured Diamond
Finished Pile Height	3/4"
Finished Pile / Total Weight	48 oz. / 120 oz.
Backing	13PP/18PET 2pt / 5mm Cushion
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	-
Features	Deluster, UV Stabilizers
Test Data	ASTM D2859, ASTM E648, ASTM F1951

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SYNPLAY 48 (+PAD)

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Textured Diamond
Standard Color	7 Colors In Stock
Fabric Construction	Tufted
Second Yarn Polymer Thatch	-
Secondary Yarn Color	-

Primary Backing	13PP/18PET 2pt
Cushion	5mm
PE Yarn Denier / Ends	5,400 / 8
Texturized Thatch Denier / Ends	-
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	3/4	inches	D-5823
Face Weight	48	oz/yd²	D-5848
Total Fabric Weight	120	oz/yd²	D-5848
Primary Backing Weight	6	oz/yd²	D-5848
Cushion Weight	60	oz/yd²	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	5,400	Denier	D-1577
Elongation to Break	> 60	%	D-2256
Yarn Breaking Strength	> 19	lbs.	D-5793
Machine Gauge	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	-		-
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNPLAY 60 (NO PAD)

This colorful, low-pile height, low-friction turf is ideal for schools, daycare, gyms, training facilities, weight rooms and activity areas.

SKU	SPG60 (No Pad)
Grass Zone Yarn	Polyethylene
Grass Zone Denier	Green: 8,400 / 1 Colors: 10,000 / 1
Thatch Zone Yarn/Color	Green: Nylon / Turf Green Navy/Grey/Black: PE / Black All Others: Matches Turf Color
Thatch Zone Denier	Green: 6,000 / 8 Colors: 5,400 / 8
Grass Zone Yarn Shape	Slit Film
Finished Pile Height	3/4"
Finished Pile / Total Weight	58 oz. / 77 oz.
Backing	13PP/18 PET 2-Part / 13 oz Black PU
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	-
Features	Deluster, UV Stabilizers
Test Data	CAL 1350, ASTM D2859, ASTM E648, EN-71, ASTM F1551, ASTM F1951

8 COLORS IN-STOCK

BLACK | BLUE | GREEN | GREY | NAVY | RED | WHITE | YELLOW

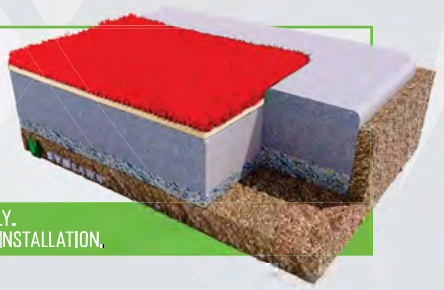
ASK ABOUT CUSTOM COLORS & DESIGNS

- LIMITED LIFETIME WARRANTY
- LOW-FRICTION FOR SAFE PLAYTIME
- DURABLE SLIT FILM SURFACE
- IDEAL FOR DAYCARES GYMS AND TRAINING FACILITIES

INSTALLATION DETAILS AVAILABLE AT

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SYNPLAY 60 (NO PAD)

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Slit Film
Standard Color	8 Colors Available
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Green: Nylon / Turf Green Navy/Grey/Black: PE/Black All Others: Match Turf Color

Primary Backing	13 PP/18 PET 2pt
Coating Type	-13 oz Black PU
PE Yarn Denier / Ends	Green: 8,400 / 1 Colors: 10,000 / 1
Texturized Thatch Denier / Ends	Green: 6,000 / 8 Colors: 5,400 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	3/4	inches	D-5823
Face Weight	58	oz/yd^2	D-5848
Total Fabric Weight	77	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	13	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	14,400/15,400	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	-		-
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNPLAY 60 (+PAD)

SYNPlay 60 +Pad is a durable, low-friction turf with energy-absorbing cushioning, perfect for agility zones and training facilities. This colorful, versatile product is also perfect for custom designs.



8 COLORS IN-STOCK

BLACK | BLUE | GREEN | GREY | NAVY | RED | WHITE | YELLOW

ASK ABOUT CUSTOM COLORS & DESIGNS

- LIMITED LIFETIME WARRANTY
- 5MM CUSHION ATTACHED
- DURABLE SLIT-FILM FIBERS
- IDEAL FOR DAYCARES GYMS AND TRAINING FACILITIES

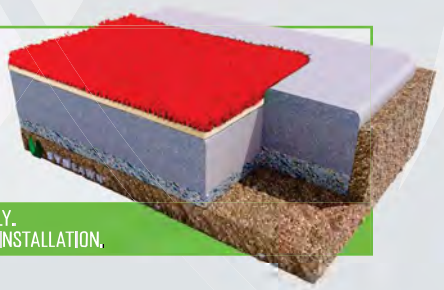
SKU	SPG60 (+PAD)
Grass Zone Yarn	Polyethylene
Grass Zone Denier	Green: 8,000 / 1 Colors: 10,000 / 1
Thatch Zone Yarn/Color	Green: Nylon / Turf Green Navy/Grey/Black: PE / Black All Others: Matches Turf Color
Thatch Zone Denier	Green: 6,000 / 8 Colors: 5,400/8
Grass Zone Yarn Shape	Slit Film
Finished Pile Height	3/4"
Finished Pile / Total Weight	58 oz. / 127 oz.
Backing	13PP/18 PET 2-Part / 5mm Cushion
Tuft Gauge	3/16"
Tuft Bind	> 8 lbs.
Permeability	-
Features	Deluster, UV Stabilizers
Test Data	CAL 1350, ASTM E648, EN-71, ASTM F1951

INSTALLATION DETAILS AVAILABLE AT

CADdetails

MasterSpec

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AGILITY LOGOS PLAY

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SYNPLAY 60 (+PAD)

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Slit Film
Standard Color	8 Colors Available
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Green: Nylon / Turf Green Navy/Grey/Black: PE/Black All Others: Match Turf Color

Primary Backing	13 PP/18PET 2pt
Cushion	5mm pad
PE Yarn Denier / Ends	Green: 8,400 / 1 Colors: 10,000 / 1
Texturized Thatch Denier / Ends	Green: 6,000 / 8 Colors: 5,400 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	3/4	inches	D-5823
Face Weight	58	oz/yd²	D-5848
Total Fabric Weight	127	oz/yd²	D-5848
Primary Backing Weight	6	oz/yd²	D-5848
Cushion Weight	60	oz/yd²	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	14,400/15,400	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/16	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	-		-
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNPRO PET

The low 1" pile height makes cleanup a breeze perfect for high-traffic indoor or outdoor pet applications, including pet parks, boarding facilities, and backyard activity areas.

POWERED BY: TRIONIC PLUS™

SKU	SYNSP GREEN
Grass Zone Yarn/Color	TRIONIC PLUS™: Nylon+PE / Field Green / Olive / Apple
Grass Zone Denier	9,900/9
Thatch Zone Yarn/Color	PE / Field Green / Beige
Thatch Zone Denier	5,000 / 8
Grass Zone Yarn Shape	Legend
Finished Pile Height	1"
Finished Pile / Total Weight	58 oz. / 86 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, DualChill ™IR Reflective, StatBlock ™ Anti-Static, EnviroLoc+™, Deluster, UV Stabilizers
Test Data	ASTM F1551, ASTM D2859, ASTM F1951, ASTM F1292, CAL 1350, BS EN 13746

SUPER YARN™

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- 2X THE DRAINAGE CAPABILITIES
- FUSES NYLON + PE GRASS POLYMERS
- FOR INDOOR/OUTDOOR PET AREAS

INSTALLATION DETAILS AVAILABLE AT

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PETS

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Sanitized Actifresh

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TGL SoFi

Official Synthetic Surface

SYNPRO PET

Primary Yarn Polymer	Nylon + PE
Yarn Cross Section	Legend
Standard Color	Field Green/Olive/Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	9,900 / 9
Texturized Thatch Denier / Ends	5,000 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1	inches	D-5823
Face Weight	58	oz/yd^2	D-5848
Total Fabric Weight	86	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	14,900	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNPRO PLAY

Nylon + PE entangled molecules in the yarn create a soft and extremely durable multi-use turf. Perfect for high-traffic indoor or outdoor play applications, including school playgrounds, multi-use recreational areas, and backyard activity zones.

POWERED BY: TRIONIC PLUS™

SKU	SYNSP GREEN
Grass Zone Yarn/Color	TRIONIC PLUS™: Nylon+PE / Field Green / Olive / Apple
Grass Zone Denier	9,900/9
Thatch Zone Yarn/Color	PE / Field Green / Beige
Thatch Zone Denier	5,000 / 8
Grass Zone Yarn Shape	Legend
Finished Pile Height	1"
Finished Pile / Total Weight	58 oz. / 86 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, DualChill ™IR Reflective, StatBlock ™ Anti-Static, EnviroLoc+™, Deluster, UV Stabilizers
Test Data	ASTM F1551, ASTM D2859, ASTM F1951, ASTM F1292, CAL 1350, BS EN 13746

SUPER YARN™

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 1,000" P/HR
- FUSES NYLON + PE GRASS POLYMERS
- IDEAL FOR HIGH-TRAFFIC PLAY AREAS

INSTALLATION DETAILS AVAILABLE AT

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PLAY

MULTI-USE

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Sanitized Actifresh

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SYNPRO PLAY

Primary Yarn Polymer	Nylon + PE
Yarn Cross Section	Legend
Standard Color	Field Green/Olive/Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	9,900 / 9
Texturized Thatch Denier / Ends	5,000 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1	inches	D-5823
Face Weight	58	oz/yd^2	D-5848
Total Fabric Weight	86	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	14,900	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNRYE 200

The perfect turf for multiple applications with unmatched safety and performance for high-traffic foot areas, including office buildings and schools. This product boasts ASTM CERTIFIED E108 CLASS A fire rating, HeatBlock technology and UV protection to reflect light and prevent melting.

SKU	SR200
Grass Zone Yarn/Color	Nylon / Field Green
Grass Zone Denier	5,400/9
Thatch Zone Yarn/Color	Nylon / Field Green
Thatch Zone Denier	5,400/9
Grass Zone Yarn Shape	Diamond Mono
Finished Pile Height	1 1/8"
Finished Pile / Total Weight	60 oz. / 88 oz.
Backing	18/18 pic PP 2pt /22oz. EnviroLoc+™
Tuft Gauge	3/8"
Total Weight	88 oz.
Tuft Bind	> 8 lbs.
Permeability	> 500 inches p/hr
Features	EnviroLoc+™, UV Stabilizers
Test Data	ASTM C518, ASTM D2859, ASTM D7138, ASTM E-108, ASTM E1908, ASTM E648, ASTM E84, EN-71, ASTM F1292, ASTM F1551, ASTM F1951, ASTM F2765

- ASTM E108 CLASS A FIRE RATING
- LIMITED LIFETIME WARRANTY
- UV PROTECTED FROM REFLECTING LIGHT
- FOR HIGH-TRAFFIC ROOTOPS & PLAYGROUNDS

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 88%

SYNRye 200 is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

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SYNRYE 200

Primary Yarn Polymer	Nylon
Yarn Cross Section	Diamond Mono
Standard Color	Field Green
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Nylon
Secondary Yarn Color	Field Green

Primary Backing	18/18 pic PP 2-Part
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	5,400/9
Texturized Thatch Denier / Ends	5,400/9
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/8	inches	D-5823
Face Weight	60	oz/yd^2	D-5848
Total Fabric Weight	88	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	10,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 500	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNRYE 246

SYNRye 246 offers a natural, earthy appearance with tan undertones that blend seamlessly into any environment. Ideal for high-traffic areas like schools and office buildings, this turf combines realistic aesthetics with top-tier performance. Featuring an ASTM CERTIFIED E108 CLASS A fire rating, HeatBlock Technology, and UV protection, it ensures safety, durability, and long-lasting beauty in even the most demanding spaces.

SKU	SR246
Grass Zone Yarn/Color	Nylon / Sport Green/Apple/Tan
Grass Zone Denier	5,400/9
Thatch Zone Yarn/Color	Nylon / Field Green/Beige
Thatch Zone Denier	5,400/9
Grass Zone Yarn Shape	Diamond Mono
Finished Pile Height	1 1/8"
Finished Pile / Total Weight	60 oz. / 88 oz.
Backing	18/18 pic PP 2-Part/22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 500 inches p/hr
Features	EnviroLoc+™, UV Stabilizers
Test Data	EN12616, ASTM C518, CAL1350, ASTM D2859, ASTM D7138, ASTM E-108, ASTM E648, ASTM E84, EN-71

- ASTM E108 CLASS A FIRE RATING
- LIMITED LIFETIME WARRANTY
- UV PROTECTED FROM REFLECTING LIGHT
- FOR HIGH-TRAFFIC ROOTOPS & PLAYGROUNDS

ROOF LANDSCAPE PLAY GOLF

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SYNRYE 246

Primary Yarn Polymer	Nylon
Yarn Cross Section	Diamond Mono
Standard Color	Sport Green/Apple/Tan
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Nylon
Secondary Yarn Color	Field Green/Beige

Primary Backing	18/18 pic PP 2-Part
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	5,400/9
Texturized Thatch Denier / Ends	5,400 /9
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/8	inches	D-5823
Face Weight	60	oz/yd^2	D-5848
Total Fabric Weight	88	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	10,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 500	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNRYE 247

With its vibrant green tones and lush, lifelike texture, SYNRye 247 delivers a strikingly natural look. Perfect for high-traffic areas such as schools and office buildings, this turf pairs its realistic appearance with exceptional durability and safety. Backed by an ASTM CERTIFIED E108 CLASS A fire rating, HeatBlock Technology, and UV protection, it stands out as a reliable and visually stunning solution for any application.

SKU	SR247
Grass Zone Yarn/Color	Nylon / Sport Green/Apple/Olive
Grass Zone Denier	5,400 / 9
Thatch Zone Yarn/Color	Nylon / Field Green/Beige
Thatch Zone Denier	5,400/9
Grass Zone Yarn Shape	Diamond Mono
Finished Pile Height	1 1/8"
Finished Pile / Total Weight	60 oz. / 88 oz.
Backing	18/18 pic PP 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 500 inches p/hr
Features	EnviroLoc+™, UV Stabilizers
Test Data	EN12616, ASTM C518, CAL1350, ASTM D2859, ASTM D7138, ASTM E-108, ASTM E648, ASTM E84, EN-71

- ASTM E108 CLASS A FIRE RATING
- LIMITED LIFETIME WARRANTY
- UV PROTECTED FROM REFLECTING LIGHT
- FOR HIGH-TRAFFIC ROOTOPS & PLAYGROUNDS

ROOF LANDSCAPE PLAY GOLF

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SYNRYE 247

Primary Yarn Polymer	Nylon
Yarn Cross Section	Diamond Mono
Standard Color	Sport Green/Apple/Olive
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Nylon
Secondary Yarn Color	Field Green/Beige

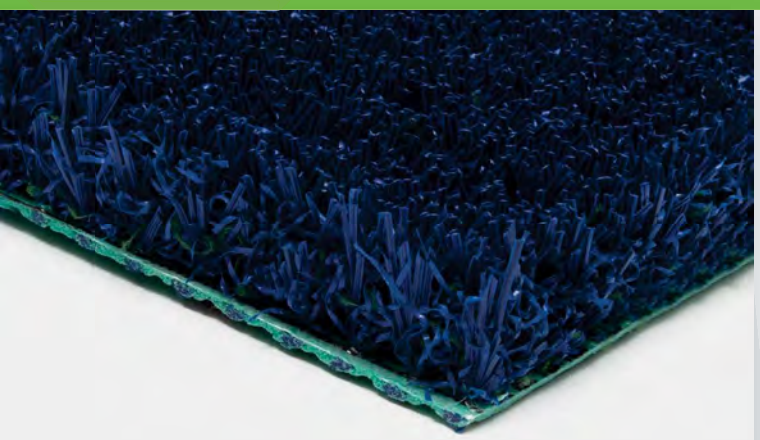
Primary Backing	18/18 pic PP 2-Part
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	5,400/9
Texturized Thatch Denier / Ends	5,400/9
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/8	inches	D-5823
Face Weight	60	oz/yd^2	D-5848
Total Fabric Weight	88	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	10,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 500	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNSPORT (COLORS)

Featuring bold colors and soft, low-friction turf blades, this turf is ideal for multi-use activity zones, wayfinding, lines, golf bunkers, and hazards.



5 COLORS IN-STOCK

WHITE | YELLOW | VEGAS GOLD | FLORIDA BLUE | BLACK

ASK ABOUT CUSTOM COLORS

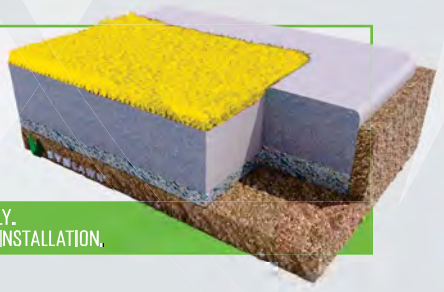
SKU	SYNSP COLORS
Grass Zone Yarn/Color	PE / 5 Colors Available
Grass Zone Denier	9,900/9
Thatch Zone Yarn/Color	PE / Matches Turf Color
Thatch Zone Denier	5,400 / 8
Grass Zone Yarn Shape	Legend Mono
Finished Pile Height	1"
Finished Pile / Total Weight	58 oz. / 86 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	EnviroLoc+™, HeatBlock, Deluster, UV Stabilizers
Test Data	ASTM F1551, ASTM D2859, ASTM F1951, ASTM F1292, CAL 1350, BS EN 13746

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 1,000" P/HR
- LOW-FRICTION PE GRASS FIBERS
- IDEAL FOR LOGOS / AGILITY ZONES

INSTALLATION DETAILS AVAILABLE AT

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SYNSPORT COLORS

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Legend Mono
Standard Color	5 Colors Available
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Matches Turf Color

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800 / 6
Texturized Thatch Denier / Ends	5,400 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1	inches	D-5823
Face Weight	58	oz/yd^2	D-5848
Total Fabric Weight	86	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	16,200	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®

Plant-Based Artificial Grass

PRODUCT SPECIFICATIONS



SYNSPORT

Nylon + PE entangled molecules in the yarn create a soft and extremely durable multi-use turf. Perfect for high-traffic indoor or outdoor applications, including golf entertainment fairways multi use fields, and backyard activity areas.

POWERED BY: TRIONIC PLUS™

SKU	SYNSP GREEN
Grass Zone Yarn/Color	TRIONIC PLUS™: Nylon+PE / Field Green / Olive / Apple
Grass Zone Denier	9,900 / 9
Thatch Zone Yarn/Color	PE / Field Green / Beige
Thatch Zone Denier	5,000 / 8
Grass Zone Yarn Shape	Legend
Finished Pile Height	1"
Fiinished Pile / Total Weight	58 oz. / 86 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, DualChill ™ IR Reflective, StatBlock ™ Anti-Static, EnviroLoc+™, Deluster, UV Stabilizers
Test Data	ASTM F1551, ASTM D2859, ASTM F1951, ASTM F1292, CAL 1350, BS EN 13746

SUPER YARN™

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 1,000" P/HR
- FUSES NYLON + PE GRASS POLYMERS
- IDEAL FOR AGILITY AND GOLF FAIRWAYS

INSTALLATION DETAILS AVAILABLE AT

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LANDSCAPE PETS PLAY MULTI-USE GOLF

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IPEMA CERTIFIED ASTM F1292

Sanitized Actifresh

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SYNSPORT

Primary Yarn Polymer	Nylon + PE
Yarn Cross Section	Legend
Standard Color	Field Green/Olive/Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	9,900 / 9
Texturized Thatch Denier / Ends	5,000 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1	inches	D-5823
Face Weight	58	oz/yd^2	D-5848
Total Fabric Weight	86	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	14,900	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



SYNTIPEDE 243

Selected by Tour Players for TGL, the golf league created by TMRW Sports, this high-performance grass is ideal for fringe or rough. Its low profile, strength, and Super Yarn™ Technology ensure lasting durability and unmatched performance.

SKU	ST24B
Grass Zone Yarn/Color	PE / Field Green/Apple
Grass Zone Denier	10,800/6
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ C
Finished Pile Height	1"
Finished Pile / Total Weight	60 oz. / 88 oz
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	CAL1350, ASTM D7138, ASTM E648, ASTM F1292, ASTM F1551, ASTM F1951, ASTM F2765, EN-71, RCRA 8 TCLP

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 1,000" P/HR
- USE IN ALL CLIMATES AND REGIONS
- IDEAL FOR HIGH FOOT-TRAFFIC AREAS

INSTALLATION DETAILS AVAILABLE AT
CADdetails
MasterSpec



NOT TO SCALE. FOR ILLUSTRATION ONLY.
CONTACT YOUR LOCAL SYNLAWN FOR INSTALLATION.

LANDSCAPE PETS PLAY ROOF GOLF

SYNLAWN® | TGL SoFi

Official Synthetic Surface

MADE IN U. S. A.

Sanitized Actifresh

SYNLAWN®

TGL SoFi

Official Synthetic Surface

SYNTIPEDE 243

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ C
Standard Color	Field Green/Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800/6
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1	inch	D-5823
Face Weight	60	oz/yd²	D-5848
Total Fabric Weight	88	oz/yd²	D-5848
Primary Backing Weight	6	oz/yd²	D-5848
Secondary Coating Weight	22	oz/yd²	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Guage	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



SYNTIPEDE 321

With superior durability this grass variety delivers high performance and beauty. Featuring Super Yarn™ technology, this product creates a durable surface perfect for active children and pets, giving you peace of mind for all types of landscaping projects.

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 1,000" P/HR
- USE IN ALL CLIMATES AND REGIONS
- IDEAL FOR HIGH FOOT-TRAFFIC AREAS

SKU	S321B
Grass Zone Yarn/Color	PE / Field Green/Apple
Grass Zone Denier	10,800/6
Thatch Zone Yarn/Color	PE / Meadow Green
Thatch Zone Denier	5,600/8
Grass Zone Yarn Shape	Biomimetic™ C
Finished Pile Height	1 1/2"
Finished Pile / Total Weight	80 oz. / 108 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	CAL1350, ASTM D2859, ASTM D7138, ASTM F1292, ASTM F2765, RCRA 8 TCLP, BS EN 13746

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 70%

SYNTipede 321 is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

LANDSCAPE PETS PLAY MULTI-USE

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Official Synthetic Surface

MADE IN U. S. A.

IPEMA CERTIFIED ASTM F1292

Sanitized Actifresh

SYNLAWN®

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Official Synthetic Surface

SYNTIPEDE 321

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ C
Standard Color	Field Green / Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Meadow Green

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800/6
Texturized Thatch Denier / Ends	5,600/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/2	inches	D-5823
Face Weight	80	oz/yd²	D-5848
Total Fabric Weight	108	oz/yd²	D-5848
Primary Backing Weight	6	oz/yd²	D-5848
Secondary Coating Weight	22	oz/yd²	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	16,400	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Guage	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	D-1551
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



SYNTIPEDE 343

When superior durability and reliability matter in high foot-traffic areas, this grass delivers. The ideal turf for a multitude of applications like playgrounds, pet areas, and more.

SKU	ST34B
Grass Zone Yarn/Color	PE / Field Green / Apple
Grass Zone Denier	10,800 / 6
Thatch Zone Yarn/Color	PE / Field Green / Beige
Thatch Zone Denier	5,000 / 8
Grass Zone Yarn Shape	Biomimetic™ C
Finished Pile Height	1 1/2"
Finished Pile / Total Weight	80 oz. /108 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	EN 12616, CAL1350, ASTM D2859, ASTM D7138, ASTM E108, ASTM F1292, ASTM F1951, ASTM F2765, EN-71, RCRA 8 TCLP, BS EN 13746

SUPER YARN™

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 1,000" P/HR
- USE IN ALL CLIMATES AND REGIONS
- IDEAL FOR HIGH FOOT-TRAFFIC AREAS

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 72%

SYNTipede 343 is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

LANDSCAPE PETS PLAY MULTI-USE

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Sanitized Actifresh

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SYNTIPEDE 343

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ C
Standard Color	Field Green / Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green / Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800 / 6
Texturized Thatch Denier / Ends	5,000 / 8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/2	inches	D-5823
Face Weight	80	oz/yd²	D-5848
Total Fabric Weight	108	oz/yd²	D-5848
Primary Backing Weight	6	oz/yd²	D-5848
Secondary Coating Weight	22	oz/yd²	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN®
Plant-Based Artificial Grass

BIOMIMETIC™

PRODUCT SPECIFICATIONS



SYNTIPEDE X43

Soft fibers with extreme durability make this the perfect selection for any residential or commercial applications with high foot-traffic areas including school playgrounds, public parks, and multiple other uses.

SKU	STX4B
Grass Zone Yarn/Color	PE / Field Green/Apple
Grass Zone Denier	10,800/6
Thatch Zone Yarn/Color	PE / Field Green/Beige
Thatch Zone Denier	5,000/8
Grass Zone Yarn Shape	Biomimetic™ C
Finished Pile Height	1 1/2"
Finished Pile / Total Weight	100 oz. /128 oz.
Backing	13PP/18PET 2pt / 22oz. EnviroLoc+™
Tuft Gauge	3/8"
Tuft Bind	> 8 lbs.
Permeability	> 1,000 inches p/hr
Features	Sanitized®, EnviroLoc+™, StatBlock™ Anti-Static, DualChill™ IR Reflective, Deluster, UV Stabilizers, Biomimetic™
Test Data	EN 12616, CAL1350, ASTM C518, ASTM D7138, ASTM E108, ASTM F1292, ASTM F1951, ASTM F2765, EN-71, RCRA 8 TCLP

SUPER YARN™ TECHNOLOGY

SANITIZED® ANTIMICROBIAL

DUALCHILL™ IR REFLECTIVE

STATBLOCK™ ANTI-STATIC

- LIMITED LIFETIME WARRANTY
- OPTIMAL DRAINAGE > 1,000" P/HR
- USE IN ALL CLIMATES AND REGIONS
- IDEAL FOR HIGH FOOT-TRAFFIC AREAS

ASK ABOUT OUR...

USDA CERTIFIED ORGANIC INFILL SYSTEM

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 64%

SYNTipede X43 is a USDA Certified Bio-Based artificial grass system in combination with organic infill, able to display a unique USDA label highlighting its percentage of biobased content.

LANDSCAPE PETS PLAY ROOF MULTI-USE

SYNLAWN® | TGL SoFi

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MADE IN U. S. A.

IPEMA CERTIFIED ASTM F1292

Sanitized Actifresh

SPECIFICATIONS SUBJECT TO CHANGE 01.19.2025

SYNLAWN®

TGL SoFi

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SYNTIPEDE X43

Primary Yarn Polymer	Polyethylene
Yarn Cross Section	Biomimetic™ C
Standard Color	Field Green/Apple
Fabric Construction	Tufted
Second Yarn Polymer Thatch	Polyethylene
Secondary Yarn Color	Field Green/Beige

Primary Backing	13PP/18PET 2pt
Coating Type	22 oz. EnviroLoc+
PE Yarn Denier / Ends	10,800/6
Texturized Thatch Denier / Ends	5,000/8
Warranty Period	Limited Lifetime

FINISH FABRIC	ENGLISH SYSTEM		ASTM TEST
Nominal Specification	*Value*	*Units*	*Method*
Pile Height (Nominal)	1 1/2	inches	D-5823
Face Weight	100	oz/yd^2	D-5848
Total Fabric Weight	128	oz/yd^2	D-5848
Primary Backing Weight	6	oz/yd^2	D-5848
Secondary Coating Weight	22	oz/yd^2	D-5848
Tuft Bind	> 8	lbs.	D-1335
Grab Tear Strength (Average)	> 200	lbs.	D-5034
Total Yarn Linear Density	15,800	Denier	D-1577
Elongation to Break	> 30	%	D-2256
Yarn Breaking Strength	> 20	lbs.	D-5793
Machine Gauge	3/8	inches	D-5793
Flammability	Passed	-	D-2859
Water Permeability	> 1,000	in/hr	EN 12616
Fabric Width	15	ft	-

SYNLAWN NAILER BOARDS

UNIVERSALLY APPLICABLE. DURABLE. RESISTANT.

FormaTurf
SHAPING THE FUTURE OF TURF

100 % RECYCLED PRODUCT

MADE IN GERMANY

The material SYNLawn Nailer Boards is used for the production of the boards. This material is created using a patented production process in which 100% recycled materials from removed artificial turf systems are used.

The resulting products can be used universally. In addition to their original purpose (fixing artificial turf in landscaping), they can be used in a wide variety of areas.



ADVANTAGES

- Stable against environmental influences
- Fire class Efl (EN13501-1:2018)
- Consists of 100 % recycled artificial turf systems
- Water-repellent
- Material does not splinter
- Easy to process
- 100 % recyclable
- UV-resistant

DIMENSIONS

*1830 x 88 x 18 mm
*1830 x 88 x 37 mm
*1830 x 88 x 25 mm

* Please note that slight material-related dimensional variations are possible due to the usage of recycled materials.

FURTHER INFORMATION

SYNLawn Nailer Boards are recycled plastic. Differences in surface quality and colour are therefore not always avoidable. Please note temperature dependent dimensional fluctuations (up to +/- 5 %) during installation.

TECHNICAL DATA

PRODUCT INFORMATION SYNLAWN NAILER BOARDS

POS.	LENGTH	WIDTH	HEIGHT	WEIGHT	PU	PU WEIGHT	PU DIMENSION	PART NO.
1*	1830 mm (6ft)	88 mm (3.46 in)	19 mm (.75 in)	5 kg	200 pcs.	1000 kg	200 x 100 x 100 cm (79 x 39.5 x 39.5 in)	510005
2*	1830 mm (6ft)	88 mm (3.46 in)	38 mm (1.3 in)	10 kg	96 pcs.	1000 kg	200 x 100 x 100 cm (79 x 39.5 x 39.5 in)	510010
3*	1830mm (6ft)	88 mm (3.46 in)	25 mm (.98 in)	7,0 kg	144 pcs.	997,5 kg	200 x 100 x 100 cm (79 x 39.5 x 39.5 in)	510015



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Laykold®

COLORS NOW AVAILABLE IN

QUALICAULK



Place Your Order Today!

Contact your Laykold sales representative or
Email: info@laykold.com | Phone: 724-452-1330

- **VERSATILE:** excellent adhesion to porous and non-porous substrates, wide range of uses—from small cracks and saw cuts to court gouges and cushioned surface repairs
- **SAFE:** free of isocyanates, solvents, halogens, and acids
- **STRONG:** remains elastic and will not dry out or shrink, leading the industry in elongation at 500%!
- **DURABLE:** Color and UV stable, water & mold resistant
- **PROVEN:** caulking material that is proven to be compatible with our Laykold court surfaces
- **USER FRIENDLY:** One product, no mixing, packaged in 20 oz. tubes, easy to tool and finish

ISO 9001 14001 CERTIFIED

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POWERED BY APT

HARD COURT Laykold® PICKLEBALL PRO

Pickleball is on the rise as one of the fastest growing racquet sports. APT proudly introduces Laykold Pickleball Pro hard court and Pickleball Pro-Plus cushion court. Whether you are starting from scratch or resurfacing an existing court, we have a Pickleball system to meet your needs.



1. LM Bond-Kote
   Used on concrete substrates only
2. Laykold® Acrylic Resurfacer or Nusurf
3. Laykold® Advantage
4. Laykold® Line Primer and Textured
   White Line Paint

HIGHLIGHTS

Only acrylic surface made by an ISO 9001 and 14001 certified company in the United States

- Environmentally friendly - does not contain asbestos, lead or mercury
- A wide variety of factory textured colors available
- Superior abrasion and UV resistance
- Custom colors available

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POWERED BY APT

CUSHION COURT Laykold®

PICKLEBALL PRO PLUS



HIGHLIGHTS

- Only acrylic surface made by an ISO 9001 and 14001 certified company in the United States
- Superior force reduction for more comfortable play and post play experience
- Firm, yet resilient, uniform cushion surface for maximized mobility
- A wide variety of factory textured colors available
- Superior abrasion and UV resistance
- Custom colors available

1. LM Bond-Kote
   Used on concrete substrates only
2. Laykold® Acrylic Resurfacer or Nusurf
3. Laykold® Cushion Plus
   a. Standard 5 coats = 4% FR
   b. Xtreme 6 coats = 6% FR
   c. Supreme 7 coats = 8% FR
4. Laykold® Acrylic Resurfacer or Nusurf
5. Laykold® Advantage
6. Laykold® Line Primer and Textured White Line Paint

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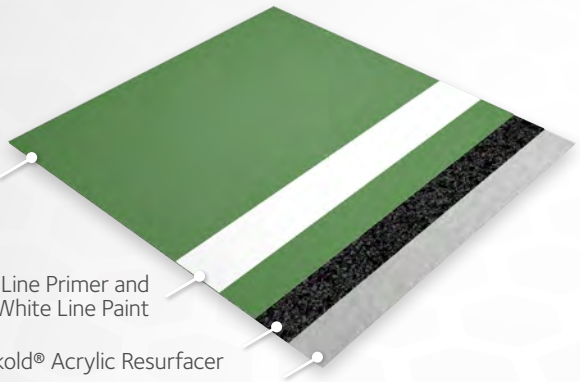
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Laykold®

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COLORCOAT

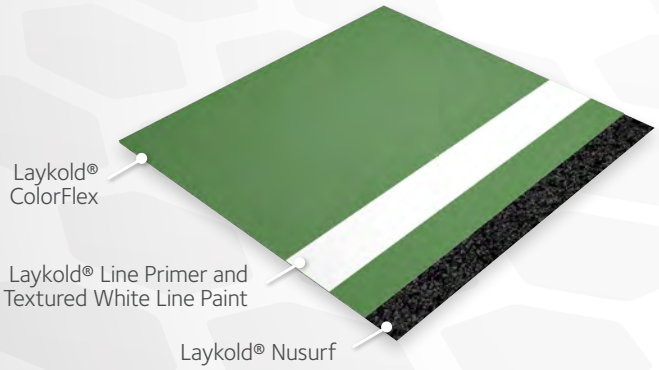
Laykold® ColorCoat system is a durable, fade and wear resistant, all-weather tennis and athletic surface, designed to beautify asphalt and/or concrete substrates while providing the desired speed of play.



Used on concrete substrates only

Highlights

- Certified Quality
- Only acrylic surface made by an ISO 9001 and 14001 certified company in the United States
- Can be adjusted to meet desired court pace
- Versatile application-tennis, basketball, netball, in-line, multisport, play courts and more
- Environmentally friendly - does not contain asbestos, lead or mercury
- A wide variety of long lasting colors
- Superior reputation for over 75 years
- Custom colors available
- Nobody covers the court like Laykold®!



COLORFLEX

Laykold® ColorFlex system is a highly flexible, premium quality, acrylic surface that is ideal for use with new asphalt pavements and cushioned, free floating, or slip-sheet surfaces that require highly flexible coatings for greater performance and longevity.

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ADVANTAGE

Laykold® Advantage system is comprised of factory textured colors using a select blend of silica sands. Batch mixing is simplified, resulting in superior quality control and a consistent surface pace regardless of location or applicator. Designed for more demanding sports traffic.

**Highlight: Advantage is factory textured.*

Highlights

- Certified Quality
- Designed for more demanding sports traffic
- Only acrylic surface made by an ISO 9001 and 14001 certified company in the United States
- Can be adjusted to meet desired court pace
- Versatile application-tennis, basketball, netball, in-line, multisport, play courts and more
- Environmentally friendly - does not contain asbestos, lead or mercury
- A wide variety of long lasting colors
- Superior reputation for over 75 years
- Custom colors available
- Nobody covers the court like Laykold®!

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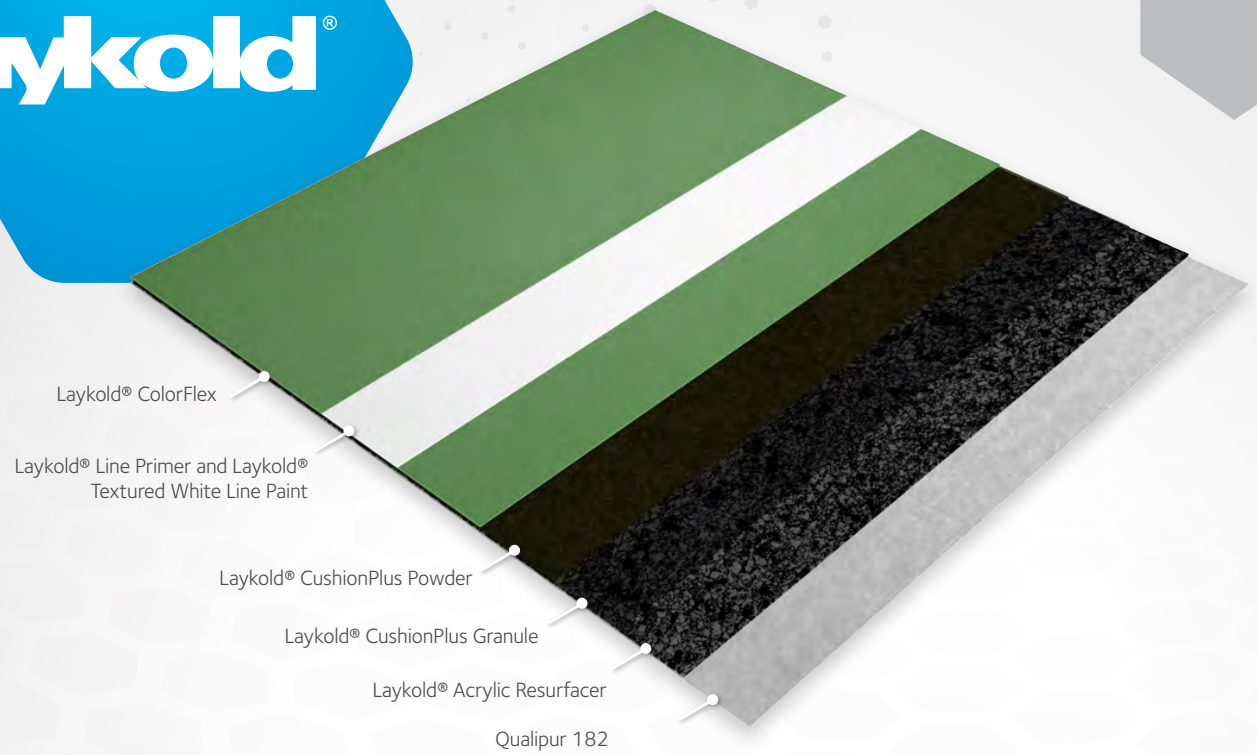
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Laykold®

APT ADVANCED POLYMER TECHNOLOGY



CUSHION**PLUS** TRADITIONAL SYSTEMS

Laykold® Cushion Plus offers a series of industry leading force reduction surfaces. Elastic layers are created using applications of liquid applied rubber, encapsulated in APT's resilient proprietary binder. The cushioned court is finished with Laykold's highly flexible ColorFlex for an attractive, durable, and comfortable playing surface.

STANDARD

- 2 coats Laykold® Cushion Plus Granule
- 3 coats Laykold® Cushion Plus Powder
- 2 coats Laykold® ColorFlex*

XTREME

- 3 coats Laykold® Cushion Plus Granule
- 3 coats Laykold® Cushion Plus Powder
- 2 coats Laykold® ColorFlex*

SUPREME

- 4 coats Laykold® Cushion Plus Granule
- 3 coats Laykold® Cushion Plus Powder
- 2 coats Laykold® ColorFlex*

**Optional:* 1 finish coat of ColorFlex may be applied to speed up surface pace.

Highlights

- Manufactured by APT in an ISO 9001 Quality Assured facility
- More comfortable play and post-play experience
- Firm, yet resilient, uniform footing for unsurpassed safety
- Available in 4 comfort levels: Standard, Xtreme, Supreme and Force
- Environmentally friendly – does not contain asbestos, lead or mercury
- Can be adjusted to meet desired court pace

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APT ADVANCED POLYMER TECHNOLOGY

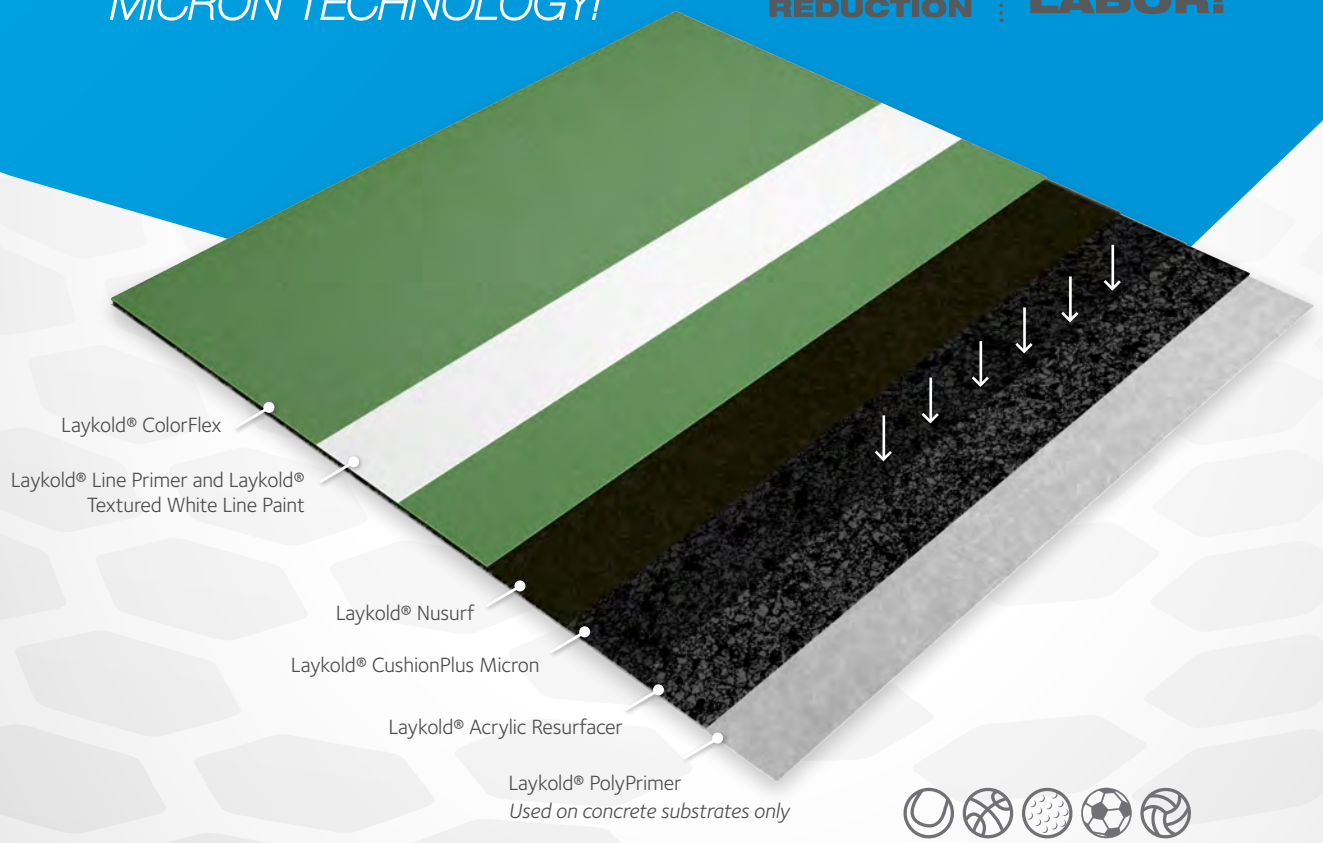
APT PROUDLY INTRODUCES Laykold® CUSHIONPLUS FORCE

FINALLY TRUE FORCE REDUCTION AND CUSHIONING WITH APT'S PROPRIETARY MICRON TECHNOLOGY!

- 2+ mm Cushion Plus Micron
- > Liquid or spray applied micron rubber **dries faster** and requires **fewer applications**
- > **Superior force reduction** over traditional systems of equal or greater thickness
- 1 coat Laykold Nusurf
- 2 coats Laykold® ColorFlex*

25% MORE FORCE REDUCTION

75% LESS LABOR!



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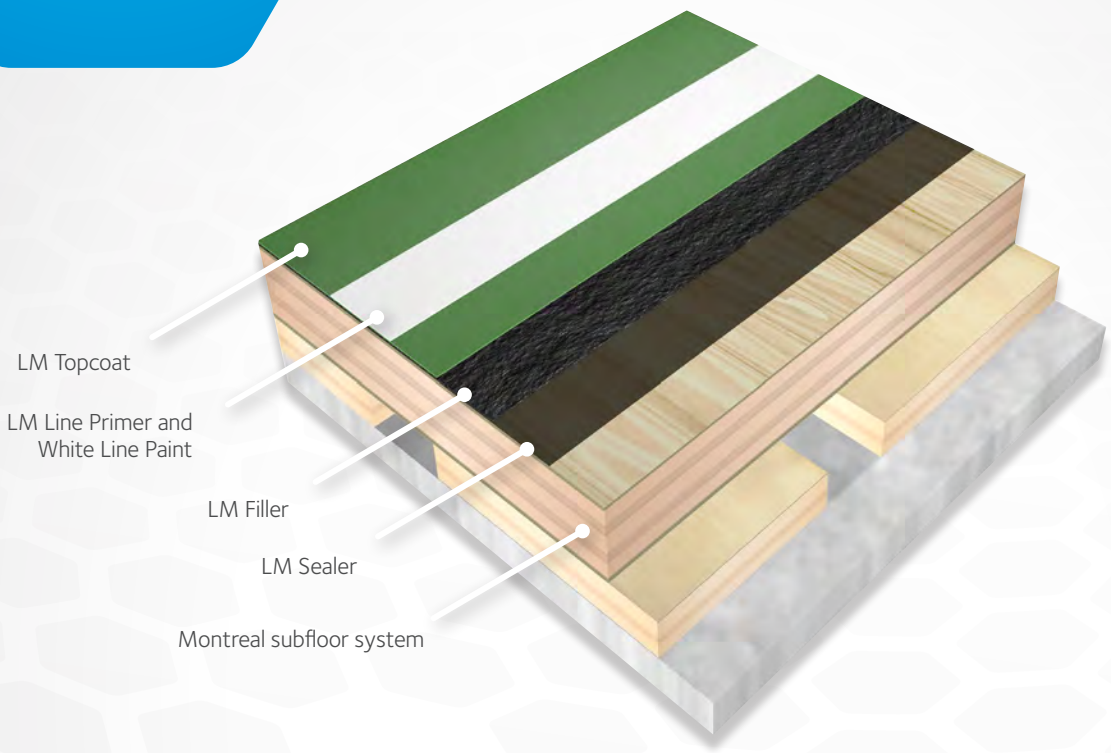
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Laykold® MASTERS

APT ADVANCED POLYMER TECHNOLOGY

Unprecedented in the world of elastic indoor court systems, Laykold® Masters Montreal and Laykold® Masters Rome's engineered plywood sub-flooring promotes speedy installation. It provides superior force reduction properties with Laykold® Masters acrylics completing this extraordinary system.



MASTERS **ROME**

Highlights

- Laykold® Masters Rome is the portable version of the Laykold® Masters Montreal system. Laykold® Masters Rome combines high performance with ultra fast installation and dismantling capabilities. The set up of an event court takes only 4-5 hours and dismantling 2-3 hours. This provides all of the characteristics for high profile and professional event demands
- Portable options with 7' x 3.5' removable panels
- Perfect for large events
- A competition floor of 8611.1ft² can be set up by 6 people in just 4 hours and disassembled again in 3
- Perfect opportunities to be able to offer tennis events for arenas without extensive modification measures
- HARO® is the only sports floor manufacturer world-wide that offers certified portable sports floor with a special patented interlocking system

MASTERS **MONTREAL**

Highlights

- 5-year warranty
- Superior abrasion and UV resistance
- Multisport applications
- Longevity - subfloor lasts 30-40 years with ability to recoat (every 8-12 years)
- Versatility - use for retrofits, new installations, overlays (floating system)
- Manufactured by APT in an ISO 9001 Quality Assured and ISO 14001 Environmentally Conscious facility
- Custom colors available

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Laykold® MASTERS

APT ADVANCED POLYMER TECHNOLOGY

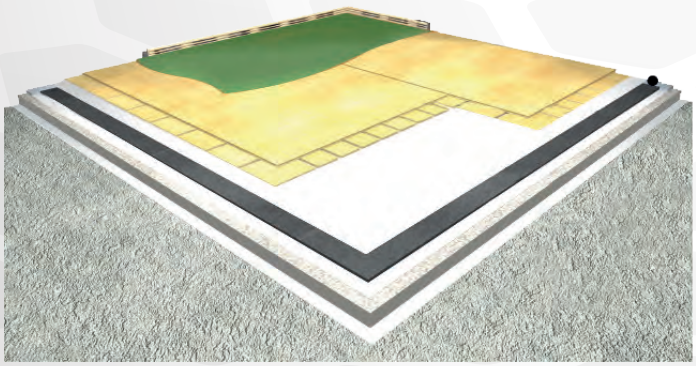
Masters Montreal and Masters Rome

Game, set and match - a winning combination

The core and essence of the tennis court is founded in Montreal and Rome, an area elastic subfloor in use for more than 40 years and served at many Olympic Games and Championships in a wide variety of sports. In 2011, a wood subfloor system was combined for the first time with acrylic tennis court coatings to combine two unique features for tennis: area elastic flooring with the playability of widely known hard courts.

Imagine the shock absorption of an area elastic subfloor, with its specially engineered underlayment, combine it with the world class acrylic finish of Laykold® and you end up with a fantastic, uniquely performing tennis court.

Laykold® Masters Montreal and Rome - a fusion of battle tested flooring systems. By blending these forces, athletes will be able to enjoy 60% force reduction, in combination with the perfect ball bounce and surface pace. The extent of shock absorption on a tennis court opens up a new dimension for player protection and will provide vastly increased comfort for the social tennis player.



Professionals, tournament players on all levels and ambitious tennis enthusiasts will be able to train harder and longer and at the same time experience vastly reduced stress on their bodies.

A SMASH HIT FOR YOUR MONEY

The longevity of this system with the subfloor lasting 30-40 years and the ability to recoat it when necessary (every 8-12 years) makes Laykold® Masters Montreal and Rome an extremely valuable investment for court owners with invaluable benefits for its users. Laykold® Masters Montreal and Rome with its ease of installation, versatility of use for retrofits, new installs, overlays (floating system) and unparalleled playing characteristics outperforms by leaps and bounds.

THE GREEN PICTURE – A TEAM EFFORT

The underlayment materials provide the core to soften the blows from rallies and hustles. Wood harvested by FSC certified manufacturers reduces the environmental impact at the production of the subfloors and serve up elasticity. The long lasting Laykold® coatings reduce the chemical footprint and provide consistency and perseverance. All of which make a champion!

THE FUNDAMENTALS OF LAYKOLD® MASTERS MONTREAL

Mean values according to DIN V 18032-2, April 2001	
Shock Absorption	60%
Vertical Deflection	3.6mm (5/32")
Deformation Control	9%
Roll Load	1,500N
Ball Rebound	98%
Slip Resistance	68 BPN
ITF Pace Rating	Medium

ISO 9001 14001 CERTIFIED

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ITF Foundation

Laykold OFFICIAL COURT SURFACE OF THE US OPEN

U.S. GREEN BUILDING COUNCIL MEMBER

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THE SURFACE SPECIALISTS

AstroTurf. APT melos

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Laykold® MASTERS

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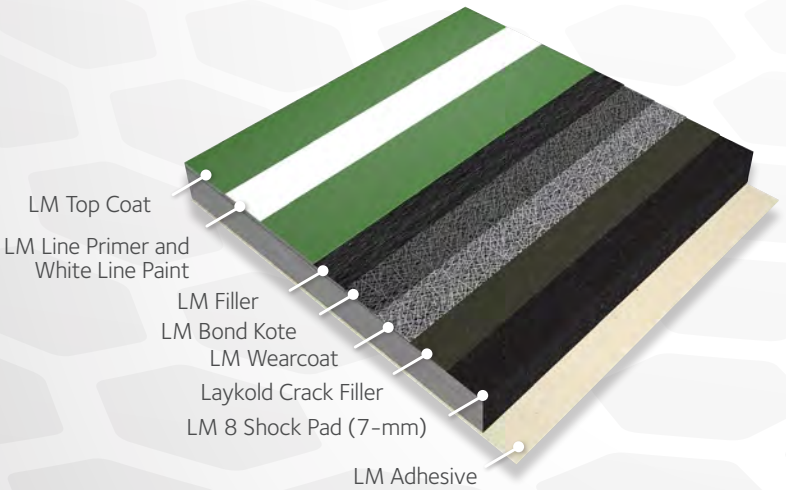
Laykold® Masters 5 and 8 are cutting-edge polyurethane/rubber/acrylic composite court systems. Each utilizes a custom pre-fabricated shockpad for advanced player comfort and is coated with LM acrylics for consistent ball bounce, reliable footing and staying power.



MASTERS 5

Highlights

- 5-year warranty
- Permanent cushion
- 14% force reduction
- Superior abrasion and UV resistance
- Multisport applications
- Manufactured by APT in an ISO 9001 Quality Assured and ISO 14001 Environmentally Conscious facility
- Custom colors available



MASTERS 8

Highlights

- 5-year warranty
- Permanent cushion
- 21% force reduction
- Superior abrasion and UV resistance
- Multisport applications
- Manufactured by APT in an ISO 9001 Quality Assured and ISO 14001 Environmentally Conscious facility
- Custom colors available

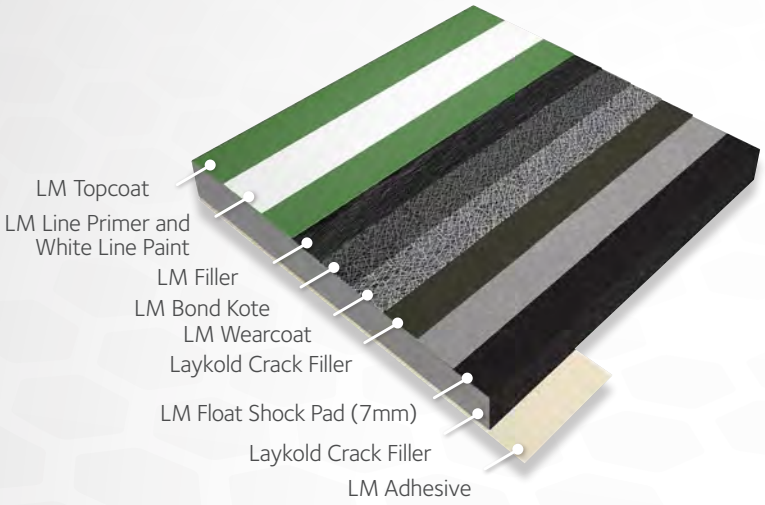
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Laykold® MASTERS

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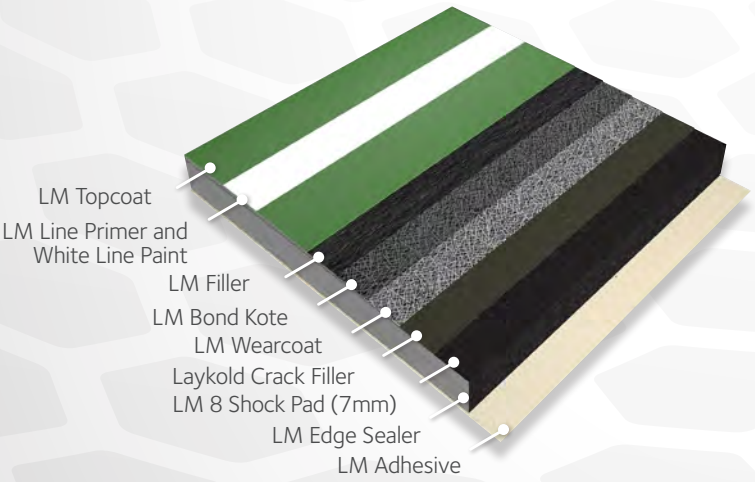
Laykold® Masters 5, 8, Float and Indoor are cutting-edge polyurethane/rubber/acrylic composite court systems. Each utilizes a custom pre-fabricated shockpad for advanced player comfort and is coated with LM acrylics for consistent ball bounce, reliable footing and staying power.



MASTERS **FLOAT**

Highlights

- 5-year warranty
- Designed to bridge cracks or moving substrates on all courts
- Excellent for rooftop installations
- Permanent cushion
- 21% force reduction
- Superior abrasion and UV resistance
- Multisport applications
- Manufactured by APT in an ISO 9001 Quality Assured and ISO 14001 Environmentally Conscious facility
- Custom colors available



MASTERS **8 INDOOR**

Highlights

- 5-year warranty
- Designed to bridge cracks or moving substrates on all courts
- Excellent for rooftop installations
- Permanent cushion
- 21% force reduction
- Superior abrasion and UV resistance
- Multisport applications
- Manufactured by APT in an ISO 9001 Quality Assured and ISO 14001 Environmentally Conscious facility
- Custom colors available

ISO 9001 14001 CERTIFIED

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Latex Running Track Specification

DISCRIPTION

Latex Running Track is a durable, resilent, texturized, all-weather system of permeable design consisting of four layers (2-layers base granules, 2-layers top granules) or recycled SBR black rubber granules bound with a latex binder.

Latex Running Track-2C is a latex bound rubber track surface in which the top two layers of the system are colored EPFM rubber granules and the base layers are black recycled SBR rubber granules that are bound with a latex binder producing a durable, resilent, textured, all-weather, system of permeable design.

Latex Running Track-FDC is a latex bound rubber track surface in which all layers consist of colored EPDM rubber granules that are bound with a latex binder which produces a durable, resilent, textured, all-weather running surface of permeable design.

All **Latex Running Track** systems are warranted againt defects in materials. The warranty excludes damage or defects caused by improper construction or design of the base materials, vandalism, abuse, neglect, lack of maintenance, or acts of God.

TRACK SYSTEM COMPONENTS

TracBase is a 47-49% solids latex styrene butadiene copolymer emulsion designed for binding rubber granules in the production of synthetic sports surfaces. When diluted with the proper amount(s) of water, **TracBase** is used as a surface primer and/or a binder for the base (first two) layers of rubber in the construction of a latex running track. **TracBase** is available in Neutral and Black.

TracTop is a 47-49% solids latex styrene butadiene copolymer emulsion designed for binding rubber granules in the production of synthetic sports surfacing. When diluted with the proper amount of water, **TracTop** is used as a binder for the top layers of rubber and a finish spray in the construction of a latex running track. **TracTop** is available in Neutral, Red, and Black.

Line Marking Paint is a latex based line marking paint compatible with latex track surfacing materials.

Base Granules are recycled SBR black rubber, granulated, processed, and graded to 3 to 6 mm in size with less than 4% dust. The granules do not contain fiber or steel.

Base Granules-FDC are synthetic colored EPDM rubber granulated, processed, and graded to 3 to 6 mm in size with less than 4% dust.

Top Granules are recycled SBR black rubber granulated, processed, and graded to a maximum of 1 to 4 mm in size with less than 4% dust. The granules do not contain fiber or steel.

Top Granules-2C and Top Granules-FDC are synthetic colored EPDM rubber granulated, processed, and graded to a maximum of 1 to 4 mm in size with less than 4% dust.

BASE INSPECTION AND PREPARATION

SURFACE INSPECTION: Prior to application of the Latex Running Track surface, the asphalt or concrete base will be inspected for conformity to planarity requirements. The base shall not deviate more than 1/8 inch in 10 feet when measured with a 10-foot straight edge in any direction. The surface may also be flooded with water to determine if any "birdbaths" or low areas exist. Compaction if the base is to be inspected by the architect. Any areas found non-compliant with the above requirements will be repaired by others with compatible materials as approved by the surfacing contractor and allowed to cure prior to the application of the synthetic surface.

The architect will provide to the surfacing contractor, prior to surface installation, a letter stating that all repairs, if any, asphalt planarity, and specifications for the base are in compliance with the project documents.

CURING: An asphalt or concrete base should be allowed a minimum of 30-days to cure prior to the Latex Running Track application. The moisture content in the concrete is to be less than 3% prior to commencement of work.

CLEANING: The area to be surfaced will be clean and free of any loose or foreign particles (dirt, oil, etc) prior to the commencement of work.

INSTALLATION

PRIME: The base surface shall be primed with 0.05 gal/syd of **TracBase.** When used as a primer, **TracBase** shall be mixed at a ratio not to exceed on part Binder to one part clean water (1:1).

BASE LAYERS (1 And 2): Base installation totals shall consist of 0.285 gal/syd of **TracBase** and 4.75 lbs./syd of **Base Granules**. **TracBase** shall be mixed not to exceed two parts material to one part clean water (2:1). Two layers of **Base Granules** shall be applied with each layer being sprayed separately with TracBase intil thoroughly encapsulated. **Base Granules** shall not be clumped or mounded and shall be applied in a manner so that there are no dry granules after encapsulation. Each layer shall be allowed to cure for 24 hours before continuing.

Apply first layer of **Base Granules** at a rate of 2.0 lbs./syd. Spray with **TracBase** at a rate of 0.12 gal/syd. Apply second layer of **Base Granules** at a rate of 2.75 lbs/syd. Spray with **TracBase** at a rate of 0.165 gal/syd.

For colored EPDM systems, such as **Latex Running Track-FDC**, increase the total **TracBase** spray to 0.35 gal/syd and increase the amount of granules to 3 lbs./syd per layer.

NOTE: Rubber application rates may differ slightly between manufacturers dur to variances in specific density and gradation of rubber.

TOP LAYERS (3 and 4): The (two) top layers shall total 0.265 gal/syd of TracTop and 4.50 lbs./syd of Top Granules. TracTop shall be mixed not to exceed two parts material to one part clean water (2:1). Two layers of Top Granules shall be applied with each layer being sprayed separately with TracTop until thoroughly encapsulated. Top Granules shall not be clumped or mounded and shall be applied in a manner fo that there are no dry granules after encapsulation. Each layer shall be allowed to cure for 24 hours before continuing. UV pigment or color tint may be added tot eh latex binder for the final layer. If UV pigment is specified, dilution shall be ten parts latex binder to on part pigment (10:1).

Apply first layer (3rd overall) of the **Top Granules** at a rate of 2**.**75 lbs/syd. Spray with **TracTop** at a rate of 0.165 gal/syd. Apply second layer (4th overall) of **Top Granules** at a rate of 1.75 lbs./syd. Spray with **TracTop** at a rate of 0.10 gal/syd.

For colored EPDM systems, such as **Latex Running Track-2C** and **Latex Running Track-FDC**, increase the total binder to 0.40 gal/syd and increase the rubber to 3 lbs./syd per layer.

FINISH SPRAY: A final application of **TracTop** is sprayed at the rate of 0.05 gal/syd. TracTop shall be mixed not to exceed two parts material to one part clean water.

LINE MARKINGS: All markings will be in accordance with the specifications and the local governing track body.

TECHNICAL DATA

THICKNESS:	Nominal 3/8 inch
CUR TIME:	Minimum of eight (8) hours for each layer of rubber. Forty-eight (48) hours after completion depending on temperature.
LIMITATIONS:	Installation of the surface is not recommended when the temperatures are below 50 degrees, or with the threat of rain or snow conditions within twenty-four (24) hour forecast. NOTE: The installation limitations are governed by the view of the manufacturer.
WEIGHTS:	**Latex Running Track**: 9.25 lbs. of granules and 0.66 gallons of latex binder per SYD. **Latex Running Track-2C**: 10.75 lbs. of granules and 0.785 gallons of latex binder per SYD. **Latex Running Track-FDC**: 12 lbs. of granules and 0.85 gallons of latex binder per SYD.

OPTIONAL POLYURETHANE SPRAY

WATER-BASE POLYURETHANE DISPERSION (PUD) STRUCTURAL SPRAY: After the latex base mat has cured a minimum of 48 hours, a Water-Based PUD structural spray comprised of 60% Water-Based PUD and 40% spray rubber (0.5 to 1.5 mm granules) by weight may be applied to improve system performance and add depth of color. Spray application thickness shall be 2-3 mm. Application rates vary depending in the porosity of the latex surface. Average consumption rates are Water-Based PUD structural spray – 2.2 lbs./syd: spray rubber – 1.5 lbs./syd. Water-Based PUD structural spray is available in Red, Black, and Rainbow Blue. Custom colors may be available upon special request.

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

Acrylic Basecoat

General Description

Laykold Acrylic Basecoat is a 100% acrylic-based emulsion blended with selected fibers and fillers to use for smoothing roughpavements. Laykold Acrylic Basecoat does not contain asbestos, Lead, or Mercury.

Basic Use: Laykold Acrylic Basecoat when combined with silica sand, Portland cement, and water is designed as an acrylic filler (resurfacer) coat for use over new or existing asphalt and properlyprepared concrete surfaces. Its high filling properties make it especially suitable for resurfacing old, uneven asphalt surfaces.

Features and Benefits

- Environmentally safe – does not containasbestos, Lead, or Mercury
- Highly concentrated formulation providessuperior yield
- Excellent for smoothing rough asphalt and concretesubstrates
- Suitable for old,uneven asphalt surfaces

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing

Storage and Packaging

Laykold Acrylic Basecoat should be kept dry, cool and in original packaging. Laykold Acrylic Basecoat has a shelf life of 1 year.

Packaging: 55 gallon drum (275 kg/drum)

Coverage

Laykold Acrylic Basecoat coverage is approximately 0.05-0.07 gal/yd2 (0.29-0.40 kg/m2 or 129-180 ft2/gal) per application of undiluted material. Coverage varies depending on pavement porosity and size/amount of silica sand added.

Installation Guidelines

Existing surface shall be clean, free from all dirt, dust, and foreign debris, and shall be dry. New asphalt should be allowed minimum 14-day curing period and new concrete should be allowed minimum 30-day curing period before applying any coatings. If Laykold Acrylic Basecoat is to be applied over concrete, please refer to the Laykold PU Primer (Qualipur 152) or Laykold Epoxy VTB (Qualipur 172) Technical DataSheet (TDS).

Prior to application of any coatings, the entire area should be flooded with water and checked for depressions of 1/16” or greater. Depressions shall be leveled using Laykold Acrylic Basecoat. Due tothe Portland cement and the design of the Laykold Acrylic Basecoat, Laykold Acrylic Basecoat will cure in depth.

Laykold Acrylic Basecoat may also be used to fill very minor depressions (1/8” or less) by mixing 1 part Laykold Acrylic Basecoat to 1 part 60-100 mesh silica sand. Only add a small amount of water, if necessary, to achieve workability.

Installation

Once patching is complete, 1-2 applications of Laykold Acrylic Basecoat shall be applied to the surface. When adding water, Portland cement, and silica sand, the Laykold Acrylic Basecoat must be then be mixed thoroughly until the material is consistent. The amount and size of the sand may be varied to achieve different textures and filling properties. Larger sand will have greater filling properties. It is highly recommended the court be sectioned off into 4 quadrants to ease in the application process. The batch mix shall be applied to the surface using a soft, rubber squeegee. The finished surface shall have a uniform appearance and be free of ridges and tool marks. If more than 1 application is applied, the 2nd application should be pulled at a 90° angle to the 1st application.

Acrylic Basecoat Mixture

10 gallon - Laykold Acrylic Basecoat
218 lb - 60-80 mesh silica sand
35 lb – Portland cement
5-7 gallon - clean water

Limitations

- Minimum surface and application temperature: 10°C (50°F) and rising
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply when rain is imminent
- Do not allow to freeze
- Do not dilute with water or overload with sand
- Drying time of 2-4 hours depending on weather condition
- This product is not a crack repair system. It can be used to fill cracks, but cracks can/will return.

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

Density	1.30-1.40 g/cm^3
Viscosity	35,000-45,000 cPs

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications
Consult the Safety Data Sheet (SDS) for more details

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Acrylic Resurfacer

General Description

Laykold Acrylic Resurfacer is a highly concentrated, 100% acrylicbased emulsion blended with selected fibers and fillers. Laykold Acrylic Resurfacer is environmentally safe and does not contain asbestos, Lead, or Mercury. Laykold Acrylic Resurfacer is designed to be mixed with silica sand and water to create an acrylic filler coat/resurfacer for use on new and existing asphalt and concrete substrates.

Basic Use: Laykold Acrylic Resurfacer is used to prepare asphalt and concrete surfaces for the application of Laykold Cushion and/or Laykold Colorcoats.

Colors: Black or Neutral

Features and Benefits

- Environmentally safe
- Highly concentrated formulation provides superior yield
- Holds sand in suspension longer
- Excellent for smoothing new or existing asphalt and concrete substrates
- Available in Black or Neutral

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

Laykold Acrylic Resurfacer should be kept dry, cool and in original packaging. Laykold Acrylic Resurfacer has a shelf life of 1 year.

Packaging: 55 gallon drum (260 kg/drum) or 30 gallon drum (142 kg/drum)

Coverage

Laykold Acrylic Resurfacer coverage is approximately 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m$_2$ or 129-180 ft^2/gal) per application of undiluted material. Coverage varies depending on pavement porosity and size/amount of silica sand added.

Installation Guidelines

Previously acrylic coated surfaces must be clean, dry, properly prepared, and have good adhesion to the substrate before application of the Laykold surfacing system. New asphalt pavements should be allowed to cure a minimum of 14-days.

Existing smooth finished concrete requires shot-blasting or sandblasting to produce a moderately textures surface. The surface must be clean, dry, sound, free of all bond-inhibiting contaminants (no curing agents), properly prepared, and primed with the appropriate Laykold primer before application of Laykold surfacing system.

New concrete substrates shall be medium broom finish (CSP3). **NO CURING AGENTS** used and allowed a 30-day minimum cure time. The surface must be clean, dry, sound, free of all bond-inhibiting contaminants (no curing agents), properly prepared, and primed with the appropriate Laykold primer before application of Laykold surfacing system.

Once patching is complete, 1-2 applications of Laykold Acrylic Resurfacer as needed or specified shall be applied to the surface. When adding water and silica sand, the Laykold Acrylic Resurfacer must be mixed thoroughly until the material is consistent. Do not incorporate air bubbles into the mixture. The amount and size of silica sand may be varied to achieve the desired texture and filling properties. Use of larger sands increase coating thickness and reduces product yield.

The batch mix shall be applied using a 70 Durometer flexible rubber squeegee with a 24” to 36” blade width. The application shall have a uniform appearance and be free of ridges and tool marks. If more than 1 application is required, allow the previous coat to dry, scrape off minor imperfections, and clean the surface before proceeding to additional coats..

Acrylic Resurfacer Mixture

55 gallon of Acrylic Resurfacer
600-900 lb of 60-80 mesh silica sand
30-40 gallon of clean water

Limitations

- Minimum surface and application temperature: 10°C (50°F) and rising
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply when rain is imminent
- Do not allow to freeze
- Do not over dilute with water or overload with sand
- Only mix with potable water and clean sands, free of clay, silt, and other foreign materials
- Do not apply over tar emulsion sealers
- Allow adequate cure time for new asphalt and concrete substrates. A minimum 30-days for concrete and 14-days for asphalt
- Laykold surfacing systems/products WILL NOT prevent pavement cracks from occurring or reoccurring.

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC	32 g/L*
Density	1.26-1.30 g/cm^3
Viscosity	43,000-53,000 cPs
Tensile Strength	Avg. 5.4 N/mm^2 (783 psi)
Elongation	Avg. 9.5%

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications

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Advantage System Installation Guide

Advanced Polymer Technology (APT) has prepared this installation guide to aid in the application of the Laykold Advantage surfacing system. Any references to consumptions are approximate due to variations in site conditions and application techniques. Before starting any work, the applicator should thoroughly review this installation guide and all system component technical data sheets.

Mixing of Materials

Laykold Advantage system components are supplied in concentrated form. Each component must be mixed appropriately prior to installation. Mixing can be performed in a low-speed mixing tank or in a clean 55-gallon drum using a ½" (minimum) heavy-duty drill (7 amps minimum) fitted with a stainless-steel mixing blade/shaft (shaft 1/2" x 36" long; blade 8 ½" x 5"). Materials should be mixed at a low speed (400 - 600 rpm) taking care not to introduce air into the product. Mix until material is consistent in color and texture. The mixing ratio for each product is listed below:

Laykold Advantage Component	**Maximum Dilution** Material to Water	**Silica Sand Requirements** Mesh Size/#s per gallon of concentrated material
Epoxy Moisture Mitigation Primer	None	None
LM Bond-Kote	1 part to 5 parts	None
Laykold Deep Patch	None	See Technical Data Sheet
Laykold Acrylic Resurfacer*	1 part to 0.7 part	60-80 / 10-17 #s per gal.
Advantage Laykold**	4 parts to 1 part	Do not add sand
Laykold ColorCoat Concentrate-Finish Mix	1 part to 1 part	Do not add sand

» Laykold NuSurf may be substituted in lieu of Acrylic Resurfacer and is recommended for use over new asphalt pavements, cushioned systems, and slip sheet crack repair systems. See NuSurf technical data sheet for mixing details.

» Advantage Laykold may be diluted up to 3 parts to 1 parts water in hot temperatures.

Pot Life

The pot life is set at a temperature of 68°F. Pot life will vary with temperature.

Laykold Advantage Component	Pot Life
Epoxy Mixture Mitigation Primer	See Manufacturer's Guidelines

All other Advantage components are water-based acrylics. Excess material may be resealed and stored in a cool dry environment for future use. Shelf life is approximately 1 year.

Surface Preparation

A. New Concrete of Existing Concrete Substrates

1. Concrete must be shot blasted or hydro blasted to a CSP3 profile if Laykold Epoxy VTB is required. When using LM Bond-Kote as an adhesion promoter, concrete must have a minimum of a medium broom finish and acid etched if using LM-Bond-Kote as an adhesion promoter.

2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼" below a 10-foot straight edge when measured in any random path.

3. New concrete shall be cured for a minimum of 30 days before proceeding.

4. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the Laykold VTB Primer application. All cracking and construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation. If using LM Bond-Kote, depression should be leveled before LM Bond-Kote application.

5. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

6. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.

2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

C. Previously Coated Asphalt Substrates

1. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

2. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

Primer

Primer (for concrete substrates only): When installing the Laykold Advantage System over concrete, LM Bond-Kote must be applied as the first layer of the system. If applying a breathable system or RH tests less than 75%, LM Bond-Kote can be applied. LM Bond-Kote is mixed by diluting 1 part LM Bond-Kote with 5 parts portable water and mixing using a low-speed jiffy mixer (400 to 600 rpm) until uniform (3-5 minutes). Spread the mixed primer on the substrate using a 36" 55 durometer squeegee to achieve a total coverage of approximately 0.02 gal/yd^2 (0.09 kg/m^2 – 450ft^2/gal). Allow to fully dry before proceeding.

If the concrete substrate tests with an RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) or greater than 3 lbs/1000 ft^2/24 hours, more cure time is required, or an epoxy moisture mitigation can be used. Manufacture's guidelines should be followed when applying the epoxy mitigation primer.

Note: Only use material that naturally flows out of the pail. Do not scrape, bang, or place pail upside down to force additional materials out of the pail.

FILLER COAT(S) (1-2 coats as needed)

Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat.

Note: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold NuSurf is highly recommended for use on new asphalt pavements and/or older pavements that have experienced hairline surface cracking.

TEXTURED COLOR COATS (2-3 coats)

Laykold M3 – ITF Classification 3

Apply two coats of Advantage using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons of Advantage and 7.5 gallons of potable water. The application rate shall be 0.06-0.07 gal/yd^2 (0.41-0.47 kg/m^2 - 130-150 ft^2/gal) of undiluted Advantage per coat. Each layer should be completely dry before applying subsequent layers.

Allow the final topcoat (1-2 hours) to completely dry before the application of tape and game lines.

Laykold MF4 – ITF Classification 4

Apply two coats of Advantage using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 5 gallons of Advantage and 7.5 gallons of potable water. The application rate shall be 0.06-0.07 gal/yd^2 (0.41-0.47 kg/m^2 - 130-150 ft^2/gal) of undiluted Advantage per coat.

Apply one coat of Colorcoat Concentrate using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons of Colorcoat Concentrate and 23 gallons of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted Colorcoat Concentrate per coat.

Allow the final topcoat to completely dry before the application of tape and game lines.

GAME LINES (1-2 coats as needed)

A. Wait a minimum of 24 hours after final color coat before applying line paint.

B. All lines are to be applied by painting between masking tape with a paintbrush or roller according to USA Pickleball. and ASBA. specifications.

C. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.

D. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.

E. Remove masking tape immediately after lines are dry.

F. Allow lines to dry a minimum of 24 hours before allowing play on court.

COVERAGES

Actual coverage rates are dependent upon a variety of factors relative to the field application. The installer must assess the conditions prior to ordering material. Allowances must be made for waste in mixing, pouring, and field conditions.

LIMITATIONS

A. Asphalt substrates shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, an epoxy moisture mitigation primer can be applied to 5-day old (minimum) concrete substrates according to manufacturer guidelines.

B. If an epoxy moisture mitigation primer is required, concrete substrate must be shot blasted, or hydro blasted to a CSP3 profile. Minimum requirements are a broom finish and acid etching, if using LM Bond-Kote as an adhesion promoter but shot blasting or hydro blasting is preferred.

C. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt, and other foreign matter before any coatings are applied.

D. Water used in all mixtures shall be fresh and potable.

E. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

F. Do not apply coatings to a cold surface. Surface and air temperature must be a minimum of 50ºF (10ºC) and rising. A minimum temperature of 50°F must be maintained during the entire installation process to include 24-hours before and after the installation.

G. Shaded areas will be cooler with slower curing times. Special precautions should be taken to ensure all coatings cure sufficiently prior to application of additional coatings.

H. Do not apply coatings if extremely high humidity prevents drying.

I. No coatings are to be applied if surface temperatures exceed 130°F (54°C).

J. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

K. Color(s) of acrylic color coating system is to be selected by owner from manufacturer's product color card(s).

L. If all the above conditions are met, surfacing materials shall have a (2) two-year limited warranty as supplied by the manufacturer.

Acrylic, all-weather pickleball systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/ substrate. However, acrylic all-weather pickleball systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

Please read all safety data sheets and technical data sheets before using any of the Laykold/Laykold Masters Primers. For complete and latest warranty and product information, please visit advpolytech.com

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Advantage System Specification

PART 1 – GENERAL

1.1 DESCRIPTION

A. Scope: This guide specification covers the application of the Advantage Laykold system. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. The Advantage Laykold system is designed and used for the protection, beautification, and surface pace for a variety of all-weather athletic and recreational surfaces, including tennis courts, basketball courts, playgrounds, handball courts, paddle tennis courts, etc. Laykold products should only be applied to properly prepared concrete or asphalt substrates. The Advantage Laykold system is comprised of Laykold Acrylic Deep Patch, Laykold Acrylic Resurfacer, Advantage Laykold concentrate, Laykold Line Prime and Laykold Textured White Line Paint. When applying the Advantage Laykold system to a concrete substrate Laykold Epoxy VTB Primer (≥ 75% RH), or LM Bond-Kote (adhesion promoter), is required.

B. Court Construction: Refer to the American Sports Builders Association (ASBA) manual Tennis Courts: A Construction & Maintenance Manual for court construction details. This publication may be obtained by calling the ASBA at 443-640-1042 or visiting www.sportsbuilders.org.

1.2 QUALITY ASSURANCE

A. All tennis court surfacing materials shall be Laykold as manufactured by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001 certified manufacturer. APT may be contacted via telephone 888-266-4221, fax 724-452-1703, or web sites www.laykold.com.

B. All work shall be done in accordance with American Sports Builders Association (ASBA) guidelines.

C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.3 SUBMITTALS

A. Submit one set of Advanced Polymer Technology's "Advantage Laykold System Specifications".

B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.

C. Submit current Safety Data Sheets.

D. Submit current ISO Quality Management System Certification certificate.

E. Submit current ITF surface classification.

1.4 WORKING CONDITIONS & LIMITATIONS

A. Asphalt substrates shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, Laykold Epoxy VTB Primer can be applied to 5-day old (minimum) concrete substrates according to coatings manufacturer guidelines.

B. IF Laykold Epoxy VTB is required, concrete substrate must be shot blasted, or hydro blasted a CSP3 profile. **Minimum requirements are a broom finish and acid etching, if using LM Bond-Kote as an adhesion promoter.**

C. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt, and other foreign matter before any coatings are applied.

D. Water used in all mixtures shall be fresh and potable.

E. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

F. Do not apply coatings to a cold surface. Surface and air temperature must be a minimum of 50ºF (10ºC) and rising. A minimum temperature of 50°F must be maintained during the entire installation process to include 24-hours before and after the installation.

G. Shaded areas will be cooler with slower curing times. Special precautions should be taken to ensure all coatings cure sufficiently prior to application of additional coatings.

H. Do not apply coatings if extremely high humidity prevents drying.

I. No coatings are to be applied if surface temperatures exceed 130°F (54°C).

J. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

K. Color(s) of acrylic color coating system is to be selected by owner from manufacturer's product color card(s).

L. If all the above conditions are met, surfacing materials shall have a (2) two-year limited warranty as supplied by the manufacturer.

1.5 WARRANTY

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for two (2) year. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material furnished by APT in connection with the project. No salesman or other employee or agent of APT is authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or

implied, statutory or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental, or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

PART 2 – PRODUCTS

2.1 ADVANTAGE LAYKOLD SYSTEM MATERIALS

A. All components of Advantage Laykold system shall be supplied by Advanced Polymer Technology, an ISO 9001 certified manufacturer. Advantage Laykold system components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.

B. Laykold Epoxy VTB Primer (concrete courts only). A two-component, 100% solids, solvent-free epoxy moisture mitigation primer. LM Bond-Kote (adhesion promoter) may be substituted where concrete's relative humidity, hydrostatic pressure, efflorescence, and staining are not a concern.

1. Percent Solids by Weight 98% (minimum)
2. Weight 9.01 lbs./gallon

C. LM Bond-Kote (concrete substrates only). A one-component PU/Acrylic hybrid emulsion used as a permeable concrete adhesion promoter. LM Bond-Kote is diluted 1 part LM Bond-Kote to 5 parts portable water and mixed until uniform.

1. Percent Solids by weight: 48% (minimum)
2. Weight: 8.9 lbs./gallon

D. Laykold Acrylic Resurfacer. Acrylic-based emulsion used for smoothing rough pavements. 1 to 2-coats as required. Laykold NuSurf is recommended for use on new asphalt pavements and is an acceptable substitute for Acrylic Resurfacer. Laykold NuSurf is not recommended on concrete substrates.

1. Percent Solids by Weight 52% (minimum)
2. Weight 10.7 lbs./gallon

E. Advantage Laykold Color. A factory textured, pigmented wear-resistant acrylic emulsion. 2-coats required. No bagged sand is to be added at jobsite.

1. Percent Solids by Weight 72.9% (minimum)
2. Weight 12.52 lbs./gallon

F. Optional Laykold ColorCoat Concentrate finish batch mixture. Pigmented wear-resistant acrylic emulsion. 1-coat. Laykold Colorflex finish batch mixture is an acceptable substitute. A finish coat will speed up the surface pace of the court.

1. Percent Solids by Weight 49 % (minimum)
2. Weight: 9.47-9.52 lbs./gallon

G. Laykold Line Prime. Clear drying acrylic emulsion line primer. 1-coat required.
1. Percent Solids by Weight 29%
2. Weight: 8.9 lbs./gallon

H. Laykold Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint. 1-2 coats as required.
   1. Percent Solids by Weight 67% (minimum)
   2. Weight: 11.4 lbs./gallon

PART 3 – EXECUTION

3.1 INSPECTION

A. Inspect concrete or asphalt substrate for dryness. Report any discrepancies to general contractor or owner.

B. Surface of substrate shall be cleaned by general contractor as required.

C. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 PREPARATION

A. New Concrete or Existing Concrete Substrates

1. Concrete must be shot blasted, or hydro blasted to a CSP3 profile if Laykold Epoxy VTB is required. When using LM Bond-Kote as an adhesion promoter, concrete must have a minimum of a medium broom finish and acid etched if using LM-Bond-Kote as an adhesion promoter.

2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼" below a 10-foot straight edge when measured in any random path.

3. New concrete shall be cured for a minimum of 30 days before proceeding.

4. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the Laykold VTB Primer application. All cracking and construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation. If using LM Bond-Kote, depression should be leveled before LM Bond-Kote application.

5. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

6. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.

2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

C. Previously Coated Asphalt Substrates

1. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

2. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues

3.3 INSTALLATION

A. Primer (for concrete substrates only): When installing the Advantage Laykold System over concrete, LM Bond-Kote must be applied as the first layer of the system. If applying a breathable system or RH tests less than 75%, LM Bond-Kote can be applied. LM Bond-Kote is mixed by diluting 1 part LM Bond-Kote with 5 parts portable water and mixing using a low-speed jiffy mixer (400 to 600 rpm) until uniform (3-5 minutes). Spread the mixed primer on the substrate using a 36" 55 durometer squeegee to achieve a total coverage of approximately 0.02 gal/yd^2 (0.09 kg/m^2 – 450ft^2/gal). Allow to fully dry before proceeding.

If the concrete substrate tests with an RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) or greater than 3 lbs./1000 sqft/24 hours, more cure time is required or Laykold Epoxy VTB Primer can be used. Laykold Epoxy VTB Primer is mixed by premixing the A for 1 minute, then pouring the B component into the A component and mixing using a low-speed jiffy mixer (400 – 600 rpm) for 2 minutes. Do not incorporate air when mixing. Spread Laykold Epoxy VTB Primer on the substrate using a 36" 55 durometer squeegee and high-quality, 18" medium nap roller to achieve a total coverage of 0.12 gal/yd^2 or 75 ft^2/gal. The working time for Laykold Epoxy VTB Primer is approximately 40-50 minutes once on the ground and is reduced in high temperatures. Allow 8 to 10 hours drying time before proceeding.

Note: Only use material that naturally flows out of the pail. Do not scrape, bang, or place pail upside down to force additional materials out of the pail.

B. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.

1. Surface Leveling: Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch binder slurry. Prime area with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand, and Type 1 Portland cement. Mix as per manufacturer directions.

   Note: Laykold Poly Primer (Patch Mix) is an acceptable substitute for leveling materials.

2. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions.

   Note: Laykold Crack Filler and QualiCaulk are acceptable substitutes for crack filling materials**.**

3. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.

C. Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat.

Note: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold NuSurf is highly recommended for use on new asphalt pavements and/or older pavements that have experienced hairline surface cracking.

D. Textured Color Coats:

Laykold M3 – ITF Classification 3

Apply two coats of Advantage Laykold factory textured color using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons (170 kg) of Advantage Laykold 60 and 6.5-8.5 gallons (25 to 32 kg) of potable water. The application rate shall be 0.06-0.07 gal/yd^2 (0.41-0.47 kg/m^2 - 130-150 ft^2/gal) of undiluted Advantage Laykold per coat. Each layer should be completely dry before applying subsequent layers.

Laykold MF4 – ITF Classification 4

Apply two coats of Advantage Laykold factory textured color using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons (170 kg) of Advantage Laykold and 6.5-8.5 gallons (25 to 32 kg) of potable water. The application rate shall be 0.06-0.07 gal/yd^2 (0.41-0.47 kg/m^2 - 130-150 ft^2/gal) of undiluted Advantage Laykold per coat.

Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

E. Game Lines:

1. Wait a minimum of 24 hours after final color coat before applying line paint.
2. All lines are to be applied by painting between masking tape with a paintbrush or roller according to U.S.T.A. and A.S.B.A. specifications.
3. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.
4. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.

5. Remove masking tape immediately after lines are dry.
6. Allow lines to dry a minimum of 24 hours before allowing play on court.

F. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

3.4 PROTECTION

A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.

B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.

C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for a period of one week after completion.

D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.

E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

Please read all safety data sheets and technical data sheets before using any of the Laykold/Laykold Masters Primers.
For complete and latest warranty and product information, please visit advpolytech.com
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Advantage

General Description

Laykold Advantage is a wear-resistant, propriety sand blend filled, 100% acrylic emulsion consisting of high quality pigments and polymers to produce an easy to apply color coating material. Laykold Advantage does not contain any asbestos, Lead, or Mercury.

The benefit of Laykold Advantage is that only water is added at the jobsite. It already contains the proper type, size, and ratio of silica sand to create a medium speed play tennis court surface. The result is an easy to mix material that produces a consistent speed of play for every court.

Basic Uses: Laykold Advantage can be applied to asphalt or properly prepared concrete for the protection, beautification, and surface speed adjustment of many recreational surfaces, including tennis courts, basketball courts, playgrounds, handball courts, paddle tennis courts, etc..

Features and Benefits

- 2 year Manufacture Warranty
- International Tennis Federation (ITF) classified
- Easy to apply
- Environmentally friendly
- Sand premixed into product – only water addition necessary
- Does not contain asbestos, Lead, or Mercury
- Variety of colors

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

Laykold Advantage should be kept dry and cool. Storage temperature should be between 4°C (40°F) and 32°C (90°F). Laykold Advantage has a shelf life of 1 year.

Packaging: 30 gallon drum (176 kg) or 5 gallon pail (28.39 kg)

Coverage

Laykold Advantage coverage is approximately 0.065-0.075 gal/yd^2 (0.41-0.47 kg/m^2 or 130-150ft^2/gal) per application of undiluted material.

Laykold Advantage 60 coverage is approximately 0.07 – 0.08 gal/yd^2(0.47 – 0.52 kg/m^2 : 110 – 130 ft^2/gal) per application of undiluted material.

Coverage may vary depending on porosity and texture of the substrate.

Installation Guidelines

Existing surface shall be dry, clean, and free from all dirt, dust, and foreign debris. New asphalt and concrete should be allowed a 30 day curing period before applying any coatings. If advantage Laykold is to be applied over concrete, please refer to the Laykold Epoxy VTB Primer or Laykold Poly Primer

technical data sheets.

(TDS) before applying. Prior to application of any coatings, the entire area shall be flooded with water and checked for depressions of 1/16" or greater. Depressions shall be leveled using Laykold Deep Patch. Refer to the Laykold Deep Patch TDS for mixture and application details. Once patching is complete, 1-2 applications of Laykold NuSurf or Acrylic Resurfacer, as specified, shall be applied to the surface. Refer to TDS for mixture and application details. Please note that resurfacer coat may NOT be necessary over previously coated surfaces that are in good condition. When adding water, the Laykold Advantage must be mixed thoroughly until the material is consistent.

The mixed product shall be applied to the surface using a soft, rubber squeegee. Two (2) applications of Laykold Advantage (minimum) are necessary and should be pulled at 90° angles. The final coat should be pulled parallel to the net.

Limitations

- Do not apply when surface temperature exceeds 130°F (54°C)
- Do not apply when temperatures are below 50°F (10°C) or when rain is imminent.
- Do not allow to freeze.
- Do not over dilute with water.
- Drying time of 2-4 hours depending on weather conditions.
- Minimum 1 hour to recoat.

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC	17 g/L*
Density	1.45 – 1.55 g/cm^3
Viscosity	30,000 – 40,000 cPs
Tensile Strength	Avg. 1.61 N/mm^2
Elongation	6.5%
Abrasion	70.7 mg loss (CS 17 wheel, 1,000 cycles)
Mixing Ratio (with water)	4:1

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications

Consult the Safety Data Sheet (SDS) for more details

For complete and latest warranty and product information, please visit www.advpolytech.com

Above figures are guide values and should not be used as a base for specifications. Consult the Safety Data Sheet (SDS) for more details. For complete and latest warranty and product information, please visit advpolytech.com

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Colorcoat Concentrate

General Description

Laykold Colorcoat Concentrate is a wear-resistant, 100% acrylic emulsion consisting of high-quality pigments and polymers that are blended into a concentrate form. Laykold Colorcoat Concentrate does not contain any asbestos, Lead, or Mercury. An excellent advantage of the Laykold Colorcoat Concentrate.

Basic Use: Laykold Colorcoat Concentrate can be applied to asphalt or properly prepared concrete for the protection and beautification of many recreational surfaces, including tennis courts, basketball courts, playgrounds, handball courts, paddle tennis courts, shuffleboard, etc.

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Features and Benefits

- International Tennis Federation (ITF) classified
- Wear resistant
- Environmentally friendly
- Can be used for both texture and finish coat
-
- Contains no asbestos, Lead, or Mercury

Storage and Packaging

Laykold Colorcoat Concentrate should be kept dry, cool and in original packaging. Laykold Colorcoat Concentrate has a shelf life of 1 year.

Packaging: 55-gallon drum (260 kg/drum) or 30-gallon drum (142 kg/drum).

Coverage

Texture coat coverage is approximately 0.045 - 0.06 gal/yd2 (0.23-0.29 kg/m2 or 180-225 ft2/gal) per application of undiluted material.

Finish coat coverage is approximately 0.03-0.045 gal/yd2 (0.17-0.23 kg/m2 or 225-300 ft2/gal) per application of undiluted material.

Coverage may vary depending on pavement porosity and texture.

Installation Guidelines

Existing surface shall be dry, clean, and free from all dirt, dust, and foreign debris. New asphalt and concrete should be allowed a 30-day curing period before applying and coating. If Colorcoat Concentrate is to be applied over concrete, please refer to the Laykold Concrete Primer Technical Data Sheet (TDS). Prior to application of any coatings, the entire area should be flooded with water and checked for depressions of 1/16” or greater. Depressions shall be leveled using Laykold Deep Patch. Refer to individual TDS for mixture application details. Once patching is completed, 1-2 applications of Laykold NuSurf or Acrylic Resurfacer, as specified, shall be applied to the surface. Refer to individual TDS for mixture and application details. Please note that Resurfacer coats may NOT be necessary over previously coated surfaces that are in good condition. When adding water and/or silica sand, the Laykold Colorcoat Concentrate must be mixed thoroughly until the material is consistent. The amount and size of sand may be varied to achieve different textures and filling properties. Larger sand will slow the speed of play.

Texture Colorcoat Mixture

55 gallon (260 kg) of Colorcoat Concentrate
300-450 lb of 70-100 mesh silica sand
25-35 gallon of clean water.

Finish Colorcoat Mixture

55 gallon (260 kg) of Colorcoat Concentrate
50-55 gallon of clean water

The mixed product shall be applied to the surface using a soft, rubber squeegee. Two (2) applications of Laykold Colorcoat Concentrate are necessary and should be pulled at 90° angles. The final coat should be pulled parallel to the net.

Limitations

- Minimum surface and application temperature: 10°C (50°F) and rising
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply when rain is imminent
- Do not allow to freeze
- Do not over dilute with water
- Drying time of 2-4 hours depending on weather conditions
- Minimum 1 hour to recoat
- For indoor applications, sand should NOT be added to the final coat.

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC	29.5 g/L*
Density	1.19-1.29 g/cm^3
Viscosity	30,000-40,000 cPs
Tensile Strength	Avg. 4 N/mm^2 (580 psi)
Elongation	Avg. 18%
Abrasion	168.5 mg loss

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications

Consult the Safety Data Sheet (SDS) for more details

For complete and latest warranty and product information, please visit www.advpolytech.com

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ColorCoat System Installation Guide

Advanced Polymer Technology (APT) has prepared this installation guide to aid in the application of the Laykold Advantage surfacing system. Any references to consumptions are approximate due to variations in site conditions and application techniques. Before starting any work, the applicator should thoroughly review this installation guide and all system component technical data sheets.

Mixing of Materials

Laykold ColorCoat system components are supplied as concentrates. Each component must be mixed appropriately prior to installation. Mixing can be performed in a low-speed mixing tank or in clean 55-gallon drum using a ½" (minimum) heavy-duty drill (7 amps minimum) fitted with a stainless steel mixing blade/shaft (shaft 1/2" x 36" long; blade 8 ½" x 5"). Materials should be mixed at a low speed (400 - 600 rpm) taking care not to introduce air into the product. Mix until material is consistent in color and texture. The mixing ratio for each product is listed below:

Laykold ColorCoat Component	**Maximum Dilution** Material to Water	**Silica Sand Requirements** Mesh size/#s per gallon of concentrated material
Laykold Poly Primer or Laykold Epoxy VTB Primer	None	See Technical Data Sheet
Laykold Acrylic Concrete Primer	1:3	None
Laykold Deep Patch	None	See Technical Data Sheet
Laykold Acrylic Resurfacer*	1:0.7	60-80 / 10-17 #'s per gal.
Laykold ColorCoat Concentrate - Texture Mix	1:0.6	Based on ITF Classification
Laykold ColorCoat Concentrate - Finish Mix	1:1	Do not add sand

*Laykold NuSurf may be substituted in lieu of Acrylic Resurfacer and is recommended for use over new asphalt pavements, cushioned systems and slip sheet crack repair systems. See NuSurf technical data sheet for mixing details.

Pot Life

The pot life is set at a temperature of 68°F. Pot life will vary with temperature.

Laykold Component	Pot Life
Laykold Poly Primer	40-50 minutes
Laykold Epoxy VTB Primer	15-20 minutes

All other ColorFlex components are water-based acrylics. Excess material may be resealed and stored in a cool dry environment for future use. Shelf life is approximately 1 year.

Surface Preparation

Prior to application, the existing surface must be thoroughly cleaned, sound, dry, and free of oils and other bond inhibiting contaminants. Spalls, delaminations, potholes, scaling, pop outs, and other defects in the substrate must be addressed and all projections must be leveled prior to the commencement of the surfacing applications.

Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.

Surface Leveling: Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch slurry. Prime area to be patched with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50- mesh sand and Type 1 Portland Cement. Mix as per manufacturer directions.

Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch slurry shall be used to fill cracks. Refer to Laykold Deep Patch technical data sheet for additional mixing details and application instructions for filling various sized cracks.

For applications over asphalt or new concrete, the asphalt should be allowed to cure a minimum of 14 days and concrete should be allowed to cure a minimum of 30 days and be free of any residual moisture. Excessive moisture levels can be determined by taping a 1 yd2 (1 m2) clear piece of plastic over the substrate with duct tape. Be sure that all of the edges of the plastic are sealed with the duct tape. Leave the plastic approximately 30 minutes and check for condensation under the plastic. If water appears, repeat the test every 30 minutes until the plastic remains dry.

For applications over existing concrete, mechanical methods (shot blasting, sandblasting, or hydro blasting) are recommended to produce a clean and lightly textured surface. When hydro blasting, allow 24 hours for substrate to dry completely. Prior to applying each layer of the Laykold ColorCoat system, make sure the previous layer is clean and dry.

Primer (Concrete Only)

When installing the Laykold system over concrete, Laykold Masters Bond-Kote should be used as a concrete adhesion promoter and diluted 1 part LM Bond-Kote to 5 parts water. Diluted material should be applied with a high-quality roller or squeegee. When using Laykold Masters Bond-Kote as a concrete adhesion promoter, the concrete surface should be mechanical abraded to a CSP3 profile to ensure proper adhesion (minimum requirements are medium broom finish and acid etching). LM Bond-Kote is applied at the following consumption rate, 0.09 kg/m^2 (0.02 gal/yd^2 or 450 ft^2/gal) of undiluted material.

When the RH test exceeds 75% relative humidity levels, or for concrete with less than 30-day cure - contact APT for proper use of the Laykold Epoxy Concrete Primer – or reference TDS for proper handling, preparation, and application.

Filler (1-2 coats as needed)

Apply one coat of Laykold Acrylic Resurfacer using a 24”, 30” or 36” wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115- 130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat. NOTE: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold NuSurf is an acceptable substitute for Laykold Acrylic Resurfacer and is highly recommended for use on new asphalt pavements, older asphalt pavements with hairline surface cracking, slip-sheet/free-floating surfaces and/or repair methods and over cushioned courts.

Textured ColorFlex (2 coats)

Laykold MS2 – ITF Classification 2

Apply two coats of Laykold ColorCoat Concentrate textured batch mixture using a 24”, 30” or 36” 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate, 25 to 35 gallons (95-115 kg) of potable water and 300 to 450 pounds (135-203 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat. Each coat should be completely dry before applying subsequent coats. Laykold ColorFlex is a highly recommended substitute for ColorCoat Concentrate on cushioned courts.

Laykold M3 – ITF Classification 3

Apply two coats of Laykold ColorCoat Concentrate textured batch mixture using a 24”, 30” or 36” 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate, 25 to 35 gallons (95-115 kg) of potable water and 300 to 450 pounds (135-203 kg) of clean, bagged silica sand (80 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd^2 (0.23-0.29 kg/m^2 - 180-225 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat. Each coat should be completely dry before applying subsequent coats. Laykold ColorFlex is a highly recommended substitute for ColorCoat Concentrate on cushioned courts.

Laykold MF4 – ITF Classification 4

Apply two coats of Laykold ColorCoat Concentrate textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate, 25 to 35 gallons (95-115 kg) of potable water and 300 to 450 pounds (135-203 kg) of clean, bagged silica sand (80 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd^2 (0.23-0.29 kg/m^2 - 180- 225 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat.

Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

Game Lines (1-2 coats as needed)

All lines are to be marked using masking tape according to U.S.T.A. and A.S.B.A. specifications. Wait a minimum of 24 hours after final Color Coat before applying any line primer or line paint. Prime masked lines with Laykold Line Prime and allow drying until primer becomes clear. Apply one to two coats as needed of Laykold Textured White Line Paint using a paint brush or roller. Remove masking tape immediately after lines are dry. Allow lines to dry a minimum of 24 hours before allowing play on court

Coverages

Actual coverage rates are dependent upon a variety of factors relative to the field application. The installer must assess the conditions prior to ordering material. Allowances must be made for waste in mixing, pouring, and field conditions.

Limitations

» Minimum cure time for asphalt and concrete substrates is 30 days.

» Do not apply over damp or wet substrates.

» Do not apply coatings if extremely high humidity prevents drying.

» Do not apply to surfaces during the out-gassing of vapor.

» Minimum application and curing temperature 50°F (10°C).

» Maximum substrate temperature 130°F (54°C).

» Substrate temperature must be a minimum of 4° above the dew point.

» Do not apply during inclement weather or when it is anticipated.

» Water used in all mixtures shall be fresh and potable.

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

Please read all safety data sheets and technical data sheets before using any of the Laykold/Laykold Masters Primers. For complete and latest warranty and product information, please visit advpolytech.com

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ColorCoat
System Specification

PART 1 – GENERAL

1.1 DESCRIPTION

A. Scope: This guideline specification covers the application of the Laykold ColorCoat system. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. The Laykold ColorCoat system is designed and used for the protection, beautification and surface pace for a variety of all-weather athletic and recreational surfaces, including tennis courts, basketball courts, playgrounds, handball courts, paddle tennis courts, etc. Laykold products should only be applied to properly prepared concrete or asphalt substrates. The Laykold ColorCoat system is comprised of Laykold Acrylic Deep Patch, Laykold Acrylic Resurfacer, Laykold ColorCoat Concentrate, Laykold Line Prime and Laykold Textured White Line Paint. When applying the Laykold ColorCoat system to a concrete substrate, Laykold Epoxy VTB Primer (≥ 75% RH), or LM Bond-Kote (adhesion promoter), is required.

B. Court Construction: Refer to the American Sports Builders Association (ASBA) manual Tennis Courts: A Construction & Maintenance Manual for court construction details. This publication may be obtained by calling the ASBA at 443-640-1042 or visiting www.sportsbuilders.org.

1.2 QUALITY ASSURANCE

A. All tennis court surfacing materials shall be Laykold as manufactured by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001 certified manufacturer. APT may be contacted via telephone 888-266-4221, fax 724-452-1703, or web site www.laykold.com

B. All work shall be done in accordance with American Sports Builders Association (ASBA) guidelines.

C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.3 SUBMITTALS

A. Submit one set of Advanced Polymer Technology's "Laykold ColorCoat System Specification".

B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.

C. Submit current Safety Data Sheets.

D. Submit current ISO Quality Management System Certification certificate.

E. Submit current ITF surface classification.

1.4 WORKING CONDITIONS & LIMITATIONS

A. Asphalt substrates shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, Laykold Epoxy VTB Primer can be applied to 5-day old (minimum) concrete substrates according to coatings manufacturer guidelines.

B. If Laykold Epoxy VTB is required. Concrete substrate must be shot blasted, or hydro blasted to a CSP3 profile. Refer to Laykold Guideline Installation for Concrete Surface Preparation.

C. If using LM Bond-Kote, concrete substrate should be shot blasted, or hydro blasted to a CSP3 profile. **Minimum requirements are medium broom finish and acid etching, if using LM Bond-Kote as an adhesion promoter.**

D. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt and other foreign matter before any coatings are applied.

E. Water used in all mixtures shall be fresh and potable.

F. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

G. Do not apply coatings to a cold surface. Surface and air temperatures must be a minimum of 50ºF (10ºC) and rising. A minimum temperature of 50ºF must be maintained during the entire installation process to include 24-hours before and after the installation.

H. Shaded areas will be cooler with slower curing times. Special precautions should be taken to ensure all coatings cure sufficiently prior to application of additional coatings.

I. Do not apply coatings if extremely high humidity prevents drying.

J. No coatings are to be applied if surface temperature exceeds 130°F (54°C).

K. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

L. Color(s) of acrylic color coating system are to be selected by owner from manufacturer's product color card(s).

M. If all the above conditions are met, surfacing materials shall have a one-year limited warranty as supplied by the manufacturer.

1.5 WARRANTY

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for one (1) year. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material furnished by APT in connection with the project. No salesman or other employee or agent of APT is authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed

or implied, statutory or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

PART 2 – PRODUCTS

2.1 LAYKOLD COLORCOAT SYSTEM MATERIALS

A. All components of Laykold ColorCoat system shall be supplied by Advanced Polymer Technology, an ISO 9001 certified manufacturer. ColorCoat system components shall not contain any lead, mercury, nor any heavy metals, PCB, or formaldehyde.

B. Laykold Epoxy VTB Primer (concrete substrates only). A two-component, 100% solids, solvent-free epoxy moisture mitigation primer. LM Bond-Kote (adhesion promoter) may be substituted where concrete's relative humidity, hydrostatic pressure, efflorescence, and staining are not a concern.

1. Percent Solids by Weight 98% (minimum)
2. Weight 9.01 lbs./gallon

C. LM Bond-Kote (concrete substrates only). A one-component, PU/Acrylic hybrid emulsion used as a permeable concrete adhesion promoter. LM Bond-Kote is diluted 1 part LM Bond-Kote to 5 parts portable water and mixed until uniform.

1. Percent Solids by weight: 48% (minimum)
2. Weight: 8.9 lbs./gallon

D. Laykold Acrylic Resurfacer. Acrylic-based emulsion used for smoothing rough pavements. 1 to 2-coats as needed. Laykold NuSurf is recommended for use on new asphalt pavements and is an acceptable substitute for Acrylic Resurfacer. Laykold NuSurf is not recommended on concrete substrates.

1. Percent Solids by Weight 52% (minimum)
2. Weight 10.68 lbs./gallon

E. Laykold ColorCoat Concentrate textured batch mixture. Pigmented wear-resistant acrylic emulsion. 2-coats required. Advantage Laykold factory textured color or Laykold Colorflex textured batch mixture are acceptable substitutes. Laykold Colorflex is not recommended on concrete substrates.

1. Percent Solids by Weight 49 % (minimum)
2. Weight: 12.9 (+/- 3) lbs./gallon

F. Optional Laykold ColorCoat Concentrate finish batch mixture. Pigmented wear-resistant acrylic emulsion. 1-coat. Laykold Colorflex finish batch mixture is an acceptable substitute. A finish coat will speed up the surface pace of the court. Laykold Colorflex is not recommended on concrete substrates.

1. Percent Solids by Weight 49 % (minimum)
2. Weight: 9.47-9.52 lbs./gallon

G. Laykold Line Prime. Clear drying acrylic emulsion line primer. 1-coat required.

1. Percent Solids by Weight 29%
2. Weight: 8.9 lbs./gallon

H. Laykold Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint. 1-2 coats as required.

1. Percent Solids by Weight 67% (minimum)
2. Weight: 11.4 lbs./gallon

PART 3 – EXECUTION

3.1 INSPECTION

A. Inspect concrete or asphalt substrates for dryness. Report any discrepancies to general contractor.

B. Surface of substrate shall be cleaned by general contractor as required.

C. Surfacing contractor to approve site and surface conditions prior to proceeding with application any coatings.

3.2 PREPARATION

A. New Concrete or Existing Concrete Substrates

1. Concrete must be shot blasted, or hydro blasted to a CSP3 profile if Laykold Epoxy VTB is required. When using LM Bond-Kote as an adhesion promoter, concrete must have a minimum of a medium broom finish and acid etched.

2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼" below a 10-foot straight edge when measured in any random path.

1. New concrete shall be cured for a minimum of 30 days before proceeding.

2. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the Laykold VTB Primer application. All cracking and construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation. If using LM Bond-Kote, depression should be leveled before LM Bond-Kote application.

3. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

4. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.

2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

C. Previously Coated Asphalt Substrates

1. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

3. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues

3.3 INSTALLATION

A. Primer (for concrete substrates only): When installing the Laykold ColorCoat system over concrete, LM Bond-Kote must be applied as the first layer of the system. If applying a breathable system or RH tests less than 75%, LM Bond-Kote can be applied. LM Bond-Kote is mixed by diluting 1 Part LM Bond-Kote with 5 Parts portable water and mixing using a low-speed jiffy mixer (400 to 600 rpm) until uniform (3-5 minutes). Spread the mixed primer on the substrate using a 36" 55 durometer squeegee to achieve a total coverage of approximately 0.02 gal/yd^2 (0.09 kg/m^2 - 450 ft^2/gal). Allow to fully dry before proceeding.

If the concrete substrate tests with RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) of greater than 3 lbs./1000 sqft/24 hours, more cure time is required or Laykold Epoxy VTB Primer can be used. Laykold Epoxy VTB is mixed by premixing the "A" for 1 minute, then pouring the "B" component into the "A" component and mixing using a low-speed jiffy mixer (400 to 600 rpm) for 2 minutes. Do not incorporate air when mixing. Spread Laykold Epoxy VTB on the substrate using a 36" 55 durometer squeegee and high-quality, 18" medium nap roller to achieve a total coverage of 0.12 gal/yd^2 or 75 ft^2/gal. The working time for Laykold Epoxy VTB is approximately 40-50 minutes once on the ground and is reduced in high temperatures. Allow 8 to 10 hours drying time before proceeding.

Note: Only use material that naturally flows out of the pail. Do not scrape, bang, or place pail upside down to force additional materials out of the pail.

B. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.

1. Surface Leveling: Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch binder slurry. Prime area to be patched with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand and Type 1 Portland Cement. Mix as per manufacturer directions.

   Note: Laykold Poly Primer (Patch Mix) is an acceptable substitute for leveling materials.

2. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions.

   Note: Laykold Crack Filler and Qualicaulk are acceptable substitutes for crack filling materials.

3. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.

C. Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat.

Note: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold Nusurf is an acceptable substitute for Laykold Acrylic Resurfacer and is highly recommended for use on new asphalt pavements, older asphalt pavements with hairline surface cracking, slip-sheet/free-floating surfaces and/or repair methods over cushioned courts.

D. Textured Color Coats:

Laykold MS2 – ITF Classification 2

Apply two coats of Laykold ColorCoat Concentrate textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate, 25 to 35 gallons (95-115 kg) of potable water and 300 to 450 pounds (135-203 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat. Each coat should be completely dry before applying subsequent coats. Laykold ColorFlex is a highly recommended substitute for ColorCoat Concentrate on cushioned courts.

Laykold M3 – ITF Classification 3

Apply two coats of Laykold ColorCoat Concentrate textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate, 25 to 35 gallons (95-115 kg) of potable water and 300 to 450 pounds (135-203 kg) of clean, bagged silica sand (80 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd^2 (0.23-0.29 kg/m^2 - 180-225 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat. Each coat should be completely dry before applying subsequent coats. Laykold ColorFlex is a highly recommended substitute for ColorCoat Concentrate on cushioned courts.

Laykold MF4 – ITF Classification 4

Apply two coats of Laykold ColorCoat Concentrate textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate, 25 to 35 gallons (95-115 kg) of potable water and 300 to 450 pounds (135-203 kg) of clean, bagged silica sand (80 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd^2 (0.23-0.29 kg/m^2 - 180-225 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat.

Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

E. Optional Finish Color Coat: Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted ColorCoat Concentrate per coat. Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines. Laykold ColorFlex is a highly recommended substitute for ColorCoat Concentrate on cushioned courts. A finish coat WILL produce a faster surface pace.

F. Game Lines:
1. Wait a minimum of 24 hours after final color coat before applying line paint.
2. All lines are to be applied by painting between masking tape with a paintbrush or roller according to U.S.T.A. and A.S.B.A. specifications.
3. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.
4. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.
5. Remove masking tape immediately after lines are dry.
6. Allow lines to dry a minimum of 24 hours before allowing play on court.

G. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

3.4 PROTECTION

A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.

B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.

C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for a period of one week after completion.

D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.

E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

Please read all safety data sheets and technical data sheets before using any of the Laykold/Laykold Masters Primers.
For complete and latest warranty and product information, please visit advpolytech.com
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Rev 9 WAB 03/07/23

ColorFlex System Installation Guide

Advanced Polymer Technology (APT) has prepared this installation guide to aid in the application of the Laykold Advantage surfacing system. Any references to consumptions are approximate due to variations in site conditions and application techniques. Before starting any work, the applicator should thoroughly review this installation guide and all system component technical data sheets.

Mixing of Materials

Laykold ColorFlex system components are supplied as concentrates. Each component must be mixed appropriately prior to installation. Mixing can be performed in a low-speed mixing tank or in a clean 55-gallon drum using a ½" (minimum) heavy-duty drill (7 amps minimum) fitted with a stainless steel mixing blade/shaft (shaft 1/2" x 36" long; blade 8 ½" x 5"). Materials should be mixed at a low speed (400 - 600 rpm) taking care not to introduce air into the product. Mix until material is consistent in color and texture. The mixing ratio for each product is listed below:

Laykold ColorFlex Component	**Maximum Dilution** Material to Water	**Silica Sand Requirements** Mesh size/#s per gallon of concentrated material
Laykold Poly Primer or Laykold Epoxy VTB Primer	None	See Technical Data Sheet
Laykold Acrylic Concrete Primer	1:3	None
Laykold Deep Patch	None	See Technical Data Sheet
Laykold NuSurf	2:1	60-80 / 10-17 #'s per gal.
Laykold ColorFlex Texture Mix	1:0.6	Based on ITF Classification
Laykold Line Paint	1:1	Do not add sand

Pot Life

The pot life is set at a temperature of 68°F. Pot life will vary with temperature.

Laykold Component	Pot Life
Laykold Poly Primer	40-50 minutes
Laykold Epoxy VTB Primer	15-20 minutes

All other ColorFlex components are water-based acrylics. Excess material may be resealed and stored in a cool dry environment for future use. Shelf life is approximately 1 year.

Surface Preparation

Prior to application, the existing surface must be thoroughly cleaned, sound, dry, and free of oils and other bond inhibiting contaminants. Spalls, delaminations, potholes, scaling, pop outs, and other defects in the substrate must be addressed and all projections must be leveled prior to the commencement of the surfacing applications.

Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.

Surface Leveling: Birdbaths shall be leveled using Laykold Deep Patch court patch slurry. Prime area to be patched with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Deep Patch, 50-mesh sand and Type 1 Portland Cement. Mix as per manufacturer directions.

Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch slurry shall be used to fill cracks. Refer to Laykold Deep Patch technical data sheet for additional mixing details and application instructions for various sized cracks.

For applications over asphalt, the asphalt should be allowed to cure a minimum of 14 days and be free of any residual moisture. Excessive moisture levels can be determined by taping a 1 yd2 (1 m2) clear piece of plastic over the substrate with duct tape. Be sure that all of the edges of the plastic are sealed with the duct tape. Leave the plastic approximately 30 minutes and check for condensation under the plastic. If water appears, repeat the test every 30 minutes until the plastic remains dry.

NuSurf Filler (1-2 coats as needed)

Apply one coat of Laykold NuSurf using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold NuSurf, 25 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold NuSurf per coat. NOTE: If the asphalt is very porous, an optional 2nd application of Laykold NuSurf may be applied. Each coat should be

completely dry before applying subsequent coats.

Textured ColorFlex (2 coats)

Laykold MS2 – ITF Classification 2

Apply two coats of Laykold ColorFlex textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex, 38 to 41 gallons (144 - 155 kg) of potable water and 225 to 300 pounds (102 - 136 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 – 129-180 ft^2/gal) of undiluted ColorFlex per coat. Each coat should be completely dry before applying subsequent coats.

Laykold M3 – ITF Classification 3

Apply two coats of Laykold ColorFlex textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex, 38 to 41 gallons (144 - 155 kg) of potable water and 225 to 300 pounds (102 - 136 kg) of clean, bagged silica sand (70 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd^2 (0.23-0.29 kg/m^2 – 160-200 ft^2/gal) of undiluted ColorFlex per coat. Each coat should be completely dry before applying subsequent coats.

Laykold MF4 – ITF Classification 4

Apply two coats of Laykold ColorFlex textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex, 38 to 41 gallons (144 - 155 kg) of potable water and 225 to 300 pounds (102 - 136 kg) of clean, bagged silica sand (70 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd^2 (0.23-0.29 kg/m^2 – 160-200 ft^2/gal) of undiluted ColorFlex per coat.

Apply one coat of Laykold ColorFlex finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted ColorFlex per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

Game Lines (1-2 coats as needed)

All lines are to be marked using masking tape according to U.S.T.A. and A.S.B.A. specifications. Wait a minimum of 24 hours after final Color Coat before applying any line primer or line paint. Prime masked lines with Laykold Line Prime and allow drying until primer becomes clear. Apply one to two coats as needed of Laykold Textured White Line Paint using a paint brush or roller. Remove masking tape immediately after lines are dry. Allow lines to dry a minimum of 24 hours before allowing play on court

Coverages

Actual coverage rates are dependent upon a variety of factors relative to the field application. The installer must assess the conditions prior to ordering material. Allowances must be made for waste in mixing, pouring, and field conditions.

Limitations

» Minimum cure time for asphalt substrates is 14 days.

» Do not apply over damp or wet substrates.

» Colorflex and NuSurf should **NOT** be used over concrete with active moisture drive.

» Do not apply coatings if extremely high humidity prevents drying.

» Do not apply to surfaces during the out-gassing of vapor.

» Minimum application and curing temperature 50°F (10°C).

» Maximum substrate temperature 130°F (54°C).

» Substrate temperature must be a minimum of 4° above the dew point.

» Do not apply during inclement weather or when it is anticipated.

» Water used in all mixtures shall be fresh and potable.

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

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ColorFlex
System Specification

PART 1 – GENERAL

1.1 DESCRIPTION

A. Scope: This guide specification covers the application of the Laykold ColorFlex system. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. The Laykold ColorFlex system is designed and used for the protection, beautification and surface pace for a variety of all-weather athletic and recreational surfaces, including tennis, basketball, handball, pickle ball, paddle tennis, play courts, etc. Laykold products should only be applied to properly prepared asphalt and wood substrates. The Laykold ColorFlex system is comprised of Laykold Acrylic Deep Patch, Laykold NuSurf, Laykold ColorFlex, Laykold Line Prime and Laykold Textured White Line Paint.

B. Court Construction: Refer to the American Sports Builders Association (ASBA) manual Tennis Courts: A Construction & Maintenance Manual for court construction details. This publication may be obtained by calling the ASBA at 443-640-1042 or visiting www.sportsbuilders.org.

1.2 QUALITY ASSURANCE

A. All tennis court surfacing materials shall be Laykold as manufactured by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001 and ISO 14001 certified manufacturer. APT may be contacted via telephone 888-266-4221, fax 724-452-1703, or web site www.laykold.com.

B. All work shall be done in accordance with American Sports Builders Association (ASBA) guidelines.

C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.3 SUBMITTALS

A. Submit one set of Advanced Polymer Technology's "Laykold ColorFlex System Specifications".

B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.

C. Submit current Safety Data Sheets (SDS).

D. Submit current ISO Quality Management System Certification certificate.

1.4 WORKING CONDITIONS & LIMITATIONS

A. Asphalt substrates should be allowed to cure a minimum of 14 days.

B. Laykold Colorflex system is intended for asphalt substrates and impermeable systems.

C. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt and other foreign matter before any coatings are applied.

D. Water used in all mixtures shall be fresh and potable.

E. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

F. Do not apply coatings to a cold surface. Surface and air temperatures must be a minimum of 50ºF (10ºC) and rising. A minimum temperature of 50°F must be maintained during the entire installation process to include 24-hours before and after the installation.

G. Shaded areas will be cooler with slower curing times. Special precautions should be taken to ensure all coatings cure sufficiently prior to application of additional coatings.

H. Do not apply coatings if extremely high humidity prevents drying.

I. No coatings are to be applied if surface temperature exceeds 130°F (54°C).

J. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

K. Color(s) of acrylic color coating system are to be selected by owner from manufacturer's product color card.

L. If all the above conditions are met, surfacing materials shall have a one-year limited warranty as supplied by the manufacturer.

Note: Laykold Colorflex system is not designed for concrete substrate.

1.5 WARRANTY

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for one (1) year. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material furnished by APT in connection with the project. No salesman or other employee or agent of APT is authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or implied, statutory or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

PART 2 – PRODUCTS

2.1 LAYKOLD COLORFLEX SYSTEM MATERIALS

A. All components of Laykold ColorFlex system shall be supplied by Advanced Polymer Technology, an ISO 9001 and ISO 14001 certified manufacturer. ColorFlex system components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.

B. Laykold Poly Primer (Q152). Optional primer for rust-spotted and stained substrates. Shall be a two-component, 100% solids, solvent-free polyurethane primer.

1. Percent Solids by Weight 98% (minimum)

2. Weight 9.01 lbs./gallon

C. Laykold NuSurf. A premium grade, highly flexible, acrylic-based emulsion used for smoothing rough pavements. 1 to 2 coats as needed,

1. Percent Solids by Weight 55 - 58.6 % (minimum)

2. Weight 9.47 - 9.52 lbs./gallon

D. Laykold ColorFlex textured batch mixture. A premium grade, highly flexible, pigmented, wear-resistant acrylic emulsion batch mixed at job site with silica sand and water. 2-coats minimum required.

1. Percent Solids by Weight 51.6 - 54.6 % (minimum)

2. Weight: 9.47 - 9.52 lbs./gallon

E. Optional Laykold ColorFlex finish batch mixture. A premium grade, highly flexible, pigmented wear-resistant acrylic emulsion batch mixed at job site with silica sand and water. 1-coat required. A finish coat will speed up the surface pace of the court.

1. Percent Solids by Weight 49 % (minimum)

2. Weight: 9.47 - 9.52 lbs./gallon

F. Laykold Line Prime. Clear drying acrylic emulsion line primer. 1-coat required.

1. Percent Solids by Weight 29%

2. Weight: 8.9 lbs./gallon

G. Laykold Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint. 1-2 coats as needed.

1. Percent Solids by Weight 67% (minimum)

2. Weight: 11.4 lbs./gallon

PART 3 – EXECUTION

3.1 INSPECTION

A. Inspect asphalt substrate for dryness. Report any discrepancies to general contractor or owner.

B. Surface of substrate shall be cleaned by general contractor as required.

C. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 PREPARATION

A. New Asphalt Substrates

1. The workmanship f other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured in any random path.

2. New asphalt shall be allowed to cure a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water; any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning – All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

B. Previously Coated Asphalt Substrates

1. The workmanship f other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured in any random path.

2. Surface cleaning – All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

3.3 INSTALLATION

A. Poly Primer rust/stain block primer: Laykold Poly Primer (152) is mixed by pouring the "B", or smaller, component into the "A", larger, component and mixing using a low-speed jiffy mixer (400 to 600 rpm) for 2 minutes. Scrape down the sides of the bucket and mix for an additional minute. Do not incorporate air when mixing. Spread the mixed Poly Primer (152) on the substrate using a high-quality, medium nap roller to achieve a total coverage of approximately .02 - .05 gals/yd² (0.20 – 0.25 kgs/m²) (175 – 230 ft²/gal). The working time for the Poly Primer is approximately 40 - 50 minutes and is reduced in high temperatures. Broadcast 20 to 40 mesh silica sand onto the wet primer at the rate of 5 pounds per 100 sq. ft. (0.25 kg/m^2) to create a rough texture. Excess sand is to be removed after the Poly Primer has cured. Allow 5 to 7 hours drying time before proceeding with excess sand removal. Poly Primer is not UV stable and should be over-coated with subsequent coatings within 24-48 hours.

B. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court should be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.

1. Surface Leveling: Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch binder slurry. Prime area with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand and Type 1 Portland cement. Mix as per manufacturer directions.

   Note: Laykold Poly Primer (Patch mix) is an acceptable substitute for leveling materials.

2. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer directions. Refer to Laykold Deep patch technical data sheet for additional mixing details and application instructions for various sized cracks.

   Note: Laykold Crack Filler and QualiCaulk are acceptable substitutes for crack filling materials.

3. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.

C. NuSurf Filler Coat(s): Apply one coat of Laykold NuSurf as filler coat using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold NuSurf, 25 gallons (95 kg) of potable water, and 400 to 500 pounds (181 – 227 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold NuSurf per coat. NOTE: If the asphalt is very porous, an optional 2nd application of Laykold NuSurf may be applied. Each coat should be completely dry before applying subsequent coats.

D. Textured ColorFlex Coats:

Laykold MS2 – ITF Classification 2

Apply two coats of Laykold ColorFlex textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex, 38 to 41 gallons (144 - 155 kg) of potable water and 225 to 300 pounds (102 - 136 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 – 129-180 ft^2/gal) of undiluted ColorFlex per coat. Each coat should be completely dry before applying subsequent coats.

Laykold M3 – ITF Classification 3

Apply two coats of Laykold ColorFlex textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex, 38 to 41 gallons (144 - 155 kg) of potable water and 225 to 300 pounds (102 - 136 kg) of clean, bagged silica sand (70 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd^2 (0.23-0.29 kg/m^2 – 160-200 ft^2/gal) of undiluted ColorFlex per coat. Each coat should be completely dry before applying subsequent coats.

Laykold MF4 – ITF Classification 4

Apply two coats of Laykold ColorFlex textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex, 38 to 41 gallons (144 - 155 kg) of potable water and 225 to 300 pounds (102 - 136 kg) of clean, bagged silica sand (70 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd^2 (0.23-0.29 kg/m^2 – 160-200 ft^2/gal) of undiluted ColorFlex per coat.

Apply one coat of Laykold ColorFlex finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted ColorFlex per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

E. Game Lines:

1. Wait a minimum of 24 hours after final color coat before applying line paint.
2. All lines are to be applied by painting between masking tape with a paintbrush or roller according to U.S.T.A. and A.S.B.A. specifications.
3. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.
4. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.
5. Remove masking tape immediately after lines are dry.
6. Allow lines to dry a minimum of 24 hours before allowing play on court.

F. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

3.3 PROTECTION

A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.

B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.

C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for a period of one week after completion.

D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.

E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

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Colorflex

General Description

Laykold Colorflex is an innovative, 100% acrylic emulsion, high performance sports surfacing material. Colorflex is highly flexible (250% greater than standard acrylic coatings), wear-resistant and manufactured using the highest quality pigments and polymers. Colorflex is a concentrate and can be used for both textured and non-textured color applications. Colorflex is environmentally friendly and does not contain any Asbestos, Lead, or Mercury.

Primary Use: Colorflex's innovative formulation and inherent superior physical properties make it the best acrylic color coating material for cushioned, slip-sheet, and/or floating sport and athletic surfacing systems. In addition, when used as a system with Laykold NuSurf (highly flexible asphalt resurfacer), the Colorflex System has had success hiding hairline to small sized surface cracks.

Features and Benefits

- Highly Flexible
- Concentrate used for wear or finish color coats
- Wear and weather resistant
- Environmentally friendly
- Does not contain Asbestos, Lead, or Mercury
- Variety of colors
- International Tennis Federation (ITF) classified

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

Colorflex should be kept dry and cool in original packaging. Colorflex has a shelf life of 1 year.

Packaging: 55 gallon drum (240 kgs/drum) or 30 gallon drum (130 kgs/drum).

Coverage

Texturized batch mix coverage is approximately 0.055 – 0.065 gals/yd^2 (0.29 – 0.35 kg/m^2 or 135 – 165 ft^2/gal) of undiluted material per coat.

Finish batch mix coverage is approximately 0.04 – 0.05 gals/yd^2 (0.23 – 0.29 kg/m^2 or 180 – 225 ft2/gal) of undiluted material per coat.

Installation Guidelines

Existing surface shall be dry, clean, and free from all dirt, dust and foreign debris. New asphalt should be allowed a 14 day cur and new concrete should be allowed a 30 day cure before application of any coatings. If Colorflex is to be applied over concrete, please refer to the Laykold Poly Primer Technical Data Sheet. Prior to application of any coatings, the entire area should be flooded with water and checked for depressions of 1/16" or greater. Depressions shall be leveled using Laykold Acrylic Deep Patch. Refer to individual technical data sheets for mixture and application details. Once patching is complete, 1-2 applications of Laykold NuSurf shall be applied to the surface. Refer to the individual technical data sheets for mixture and application details.

When adding water and/or silica sand, the Colorflex must then be mixed thoroughly until the material is consistent. The amount and size of silica sand may be varied to achieve the desired surface pace properties. A larger and greater sand content produces slower surface pace. Smaller and less sand content produces faster surface pace.

ColorFlex Textured Batch Mixture
55 gallon (260 kg) of ColorFlex
22 – 32 gallon of portable water
225 – 400 lbs of 70 – 100 mesh silica sand

ColorFlex Finish Batch Mixture
55 gallon (260 kg) of ColorFlex
45 – 50 gallon or portable water

Limitations

- Minimum air and substrate surface temperature: 50°F (10°C)
- Maximum Surface temperature of substrate: 130°F (54°C)
- Do not apply when rain is imminent
- Do not allow to freeze
- Do not over dilute with water
- Drying time of 2-4 hours depending on weather conditions
- Minimum 1 hour to recoat

Technical Data

Results based on temperature of 77°F (25°C) and 50% Relative Humidity

VOC	38.3 g/L*
Density	1.12 – 1.22 g/cm^3
Viscosity	35,000 – 45,000 cPs
Tensile Strength	Avg. 0.75 N/mm^2
Elongation	Avg. 17.3%

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications

Consult the Safety Data Sheet (SDS) for more details

For complete and latest warranty and product information, please visit www.advpolytech.com

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Crack Filler

General Description

Laykold Crack Filler is a two component, thixotropic polyurethane based filler and sealer.

Basic use: Laykold Crack Filler is designed to fill cracks in both asphalt and concrete substrates and seal porous rubber mats prior to the application of polyurethanes and acrylic coatings.

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during the application process.

Storage and Packaging

Laykold Crack Filler should be kept dry and cool in original packaging. Laykold Crack Filler has a 1 year shelf year.

Laykold Crack Filler is packaged in 11.26 kg kit (2.5 gallon).

Features and Benefits

- Zero VOC
- Thixotropic
- Easy application
- Excellent crack filler
- Excellent mat sealer
- Composed of more than 35% renewable resources and 10% recycled content

Coverage

Crack Filler: 44 linear foot per gallon based on a ½" wide, ¾" deep crack

Mat Sealer: 1.1 – 2.2 lbs/yd2 (0.6 – 1.2 kg/m2)

Installation Guidelines

The surface must be clean, dry, and free of oil, grease, dirt, and any foreign residue. Laykold Crack Filler Part A and B must be power mixed. Pre-mix Part A for minutes and then add Part B mixing thoroughly, 2-4 minutes, prior to application in order to obtain uniform blending.

NOTE: Because there are various causes of cracking differences in sizes and number of cracks, and various options for crack repair, it is important to note that eventually cracks will reappear or new cracks will form.

Crack Filler: Route all cracks to be filled to ½" wide and ¾" deep. Torch crack to ensure all moisture has been removed. Fill the bottom 1/8" of the crack with 80 mesh sand (bond breaker). Place Laykold Crack Filler in a suitable container for pouring and pour material into cracks until the crack is full. Level the material to remove an excess using a flat metal trowel. For concrete, one application will be enough to fill the crack. For asphalt, a second application will be required due to the porosity of the asphalt. Laykold Masters Bond-Kote will be required to prime the crack filler before applying acrylics.

Mat Sealer: Using a flat metal trowel, apply 1-2 applications of Laykold Crack Filler to the rubber mat to seal. If applying a second coat, second coat should be applied 90° to the first coat.

Limitations

- Do not apply over wet substrates
- Substrate and application minimum temperature: 10°C (50°F)
- Substrate and application maximum temperature: 40°C (104°F)
- Sealed surfaces should be coated with 24 hours

Technical Data

Based on a Temperature of 23°C (73°F) and 50% Relative Humidity

VOC	0 g/L*
Renewable Resources	37%
Recycled Content	11%
Density	1.14 – 1.24 g/cm3
Viscosity	Thixotropic
Color	Grey with black fleck
Mixing Ratio by Weight (A:B)	100:22
Pot Life	35 – 55 minutes
Tack Free Time	5 – 6 hours
Shore A Hardness	65 – 85
Abrasion	118 mg loss (CS 17, 1,000 cycles)
Elongation	65%
Tensile Strength	900 psi

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications

Consult the Safety Data Sheet (SDS) for more details

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Cushion Plus System Installation Guide

Advanced Polymer Technology (APT) has prepared this installation guide to aid in the application of the Laykold Cushion Plus surfacing system. Any references to consumptions are approximate due to variations in site conditions and application techniques. Before starting any work, the applicator should thoroughly review this installation guide and all system component technical data sheets.

MIXING OF MATERIALS

Laykold Cushion Plus system components are supplied in concentrated form. Each component must be mixed appropriately prior to installation. Mixing can be performed in a low-speed mixing tank or in a clean 55-gallon drum using a ½" (minimum) heavy-duty drill (7 amps minimum) fitted with a stainless-steel mixing blade/shaft (shaft 1/2" x 36" long; blade 8 ½" x 5"). Materials should be mixed at a low speed (400 - 600 rpm) taking care not to introduce air into the product. Mix until material is consistent in color and texture. The mixing ratio for each product is listed below:

Laykold Pickleball Pro Plus Component	**Maximum Dilution** Material to Water	**Silica Sand Requirements** mesh size/#'s per gallon of concentrated material
Epoxy Moisture Mitigation Primer	None	None
LM Bond-Kote	1 part to 5 parts	None
Laykold Deep Patch	None	See Technical Data Sheet
Laykold Acrylic Resurfacer*	1 part to 0.7 part	60-80 / 10-17 #'s per gal.
Laykold Cushion Plus Granular	2 parts to 1 part	None
Laykold Cushion Plus Powder	2 parts to 1 part	None
Advantage Laykold**	4 parts to 1 part*	None
Laykold ColorCoat Concentrate – Finish Mix	1 part to 1 part	None

- Laykold NuSurf may be substituted in lieu of Acrylic Resurfacer and is recommended for use over new asphalt pavements, cushioned systems and slip sheet crack repair systems. See NuSurf technical data sheet for mixing details.

- Advantage Laykold may be diluted up to 3 parts to 1 parts water in hot temperatures.

POT LIFE

The pot life is set at a temperature of 68°F. Pot life will vary with temperature.

Advantage Laykold Component	Pot Life
Epoxy Moisture Mitigation Primer	See Manufacture's Guidelines

All other Advantage components are water-based acrylics. Excess material may be resealed and stored in a cool dry environment for future use. Shelf life is approximately 1 year.

SURFACE PREPARATION

A. New Concrete or Existing Concrete Substrates

a. Concrete must be shot blasted, or hydro blasted to a CSP3 profile if Laykold Epoxy VTB is required. When using LM Bond-Kote as an adhesion promoter, concrete must have a minimum of a medium broom finish and acid etched if using LM-Bond-Kote as an adhesion promoter.

2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼" below a 10-foot straight edge when measured in any random path.

3. New concrete shall be cured for a minimum of 30 days before proceeding.

4. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the Laykold VTB Primer application. All cracking and construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation. If using LM Bond-Kote, depression should be leveled before LM Bond-Kote application.

5. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

6. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.

2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

C. Previously Coated Asphalt Substrates

1. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

b. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues

PRIMER (Concrete Only)

Primer (for concrete substrates only): When installing the Laykold Cushion Plus System over concrete, LM Bond-Kote must be applied as the first layer of the system. If applying a breathable system or RH tests less than 75%, LM Bond-Kote can be applied. LM Bond-Kote is mixed by diluting 1 part LM Bond-Kote with 5 parts portable water and mixing using a low-speed jiffy mixer (400 to 600 rpm) until uniform (3-5 minutes). Spread the mixed primer on the substrate using a 36" 55 durometer squeegee to achieve a total coverage of approximately 0.02 gal/yd^2 (0.09 kg/m^2 – 450ft^2/gal). Allow to fully dry before proceeding.

If the concrete substrate tests with an RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) or greater than 3 lbs./1000 sqft/24 hours, more cure time is required, or an epoxy moisture mitigation can be used. Manufacture's guidelines should be followed when applying the epoxy mitigation primer.

Note: Only use material that naturally flows out of the pail. Do not scrape, bang, or place pail upside down to force additional materials out of the pail.

FILLER COAT(S) (1-2 coats as needed)

Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic

Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat.

Note: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold NuSurf is highly recommended for use on new asphalt pavements and/or older pavements that have experienced hairline surface cracking.

CUSHION COATS (5-7 coats as specified)

Laykold Cushion Plus: Apply 2 coats of Laykold Cushion Plus Granule Rubber that is mixed 55 gallons (240 kg) of granule cushion to 22-27 gallons (83-90 kg) of potable water. The consumption rate for the granule cushion coat is 0.20 gal/yd^2 (.91 kg/m^2 - 45 ft^2/gal). Then apply 3 coats of Laykold Cushion Plus Powder Rubber that is mixed 55 gallons (235 kg) of powder cushion to 22 gallons (83 kg) of potable water. The average application rate for the Cushion Plus Powder coat shall equal 0.12 gal/yd^2 (0.61 kg/m^2 - 75 ft^2/gal) per coat. Apply cushion coats using a soft rubber, or notched squeegee. Each application shall be applied perpendicular (90 degrees) to the previous coat. Please note that the first application of Cushion Plus Powder will use the greatest amount of material as it begins to fill the rough texture created by the larger base rubber coats. The 2nd and 3rd applications of the small filler rubber will use less material with each coat for an overall average consumption rate of 0.12 gal/yd^2 (0.61 kg/m^2 - 75 ft^2/gal) per coat. Allow each coat to dry completely (minimum of 5 hours) before proceeding with the next coat of Cushion-Plus or water vapor may become trapped between the cushion layers causing peeling and blisters. When more than the standard Cushion Plus system (as detailed above) is desired, the cushion layers are broken down as follows:

a. Cushion Plus 6 (layers) – 3 coats granule, 3 coats powder
b. Cushion Plus 7 (layers) – 4 coats granule, 3 coats powder

NOTE: More than 7 cushion layers is not recommended.

FILLER COAT(S) (1 coat)

Filler Coat: Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat.

NOTE: Sand cured system with floor sander and 16-24 grit paper to remove rubber nubs.

TEXTURED COLOR COATS (2-3 coats)

Apply two coats of Advantage Laykold factory textured color using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons (170 kg) of Advantage Laykold and 6.5-8.5 gallons (25 to 32 kg) of potable water. The application rate shall be 0.06-0.07 gal/yd^2 (0.41-0.47 kg/m^2 - 130-150 ft^2/gal) of undiluted Advantage Laykold per coat.

Optional Finish Coat – Smoother Surface Texture

Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50

Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

GAME LINES (1-2 coats as needed)

A. Wait a minimum of 24 hours after final color coat before applying line paint.
B. All lines are to be applied by painting between masking tape with a paintbrush or roller according to USA Pickleball. and ASBA. specifications.
C. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.
D. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.
E. Remove masking tape immediately after lines are dry.
F. Allow lines to dry a minimum of 24 hours before allowing play on court.

COVERAGES

Actual coverage rates are dependent upon a variety of factors relative to the field application. The installer must assess the conditions prior to ordering material. Allowances must be made for waste in mixing, pouring, and field conditions.

LIMITATIONS

A. Asphalt substrates shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, an epoxy moisture mitigation primer can be applied to 5-day old (minimum) concrete substrates according to manufacturer guidelines.

B. If an epoxy moisture mitigation primer is required, concrete substrate must be shot blasted, or hydro blasted to a CSP3 profile. **Minimum requirements are a broom finish and acid etching, if using LM Bond-Kote as an adhesion promoter but shot blasting or hydro blasting is preferred.**

C. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt, and other foreign matter before any coatings are applied.

D. Water used in all mixtures shall be fresh and potable.

E. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

F. Do not apply coatings to a cold surface. Surface and air temperature must be a minimum of 50ºF (10ºC) and rising. A minimum temperature of 50°F must be maintained during the entire installation process to include 24-hours before and after the installation.

G. Shaded areas will be cooler with slower curing times. Special precautions should be taken to

ensure all coatings cure sufficiently prior to application of additional coatings.

H. Do not apply coatings if extremely high humidity prevents drying.

I. No coatings are to be applied if surface temperatures exceed 130°F (54°C).

J. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

K. Color(s) of acrylic color coating system is to be selected by owner from manufacturer's product color card(s).

L. If all the above conditions are met, surfacing materials shall have a (2) two-year limited warranty as supplied by the manufacturer.

Acrylic, all-weather pickleball systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness, and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather pickleball systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

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Cushion Plus System Specification

PART 1 – GENERAL

1.1 DESCRIPTION

A. Scope: This guide specification covers the application of the Laykold Cushion Plus system. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. The Laykold Cushion Plus system is a resilient, multilayered acrylic emulsion and SBR rubber particles application designed to provide the athlete with added comfort for a more enjoyable playing experience by reducing shock to the back and lower extremities. This surfacing system should be applied only to properly prepared concrete or asphalt substrates. The Laykold Cushion Plus system is comprised of Laykold Acrylic Deep Patch, Laykold Acrylic Resurfacer, Laykold Cushion Plus Granule (2-4 coats based on specified system), Laykold Cushion Plus Powder (3-coats), Laykold Advantage, Laykold Line Prime and Laykold, and Textured White Line Paint. When applying the Laykold Cushion Plus system to a concrete substrate, an epoxy topside barrier primer (≥ 75% RH), or LM Bond-Kote (adhesion promoter), is required.

B. Court Construction: Refer to the ASBA Construction Manual Courts: A Construction & Maintenance Manual for court construction details. This publication may be obtained by visiting www.sportsbuilders.org.

1.2 QUALITY ASSURANCE

A. All court surfacing materials shall be Laykold as manufactured by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001 certified manufacturer. APT may be contacted via telephone 888-266-4221, fax 724-452-1703, or www.advpolytech.com.

B. All work shall be done in accordance with American Sports Builders Association (ASBA) guidelines.

C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.3 SUBMITTALS

A. Submit one set of Advanced Polymer Technology's "Laykold Cushion Plus System Specifications".

B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.

C. Submit current Safety Data Sheets.

D. Submit current ISO Quality Management System Certification certificate.

1.4 WORKING CONDITIONS & LIMITATIONS

A. Asphalt substrates shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, an epoxy moisture mitigation primer can be applied to 5-day old (minimum) concrete substrates according to manufacturer guidelines.

B. If an epoxy moisture mitigation primer is required, concrete substrate must be shot blasted, or hydro blasted to a CSP3 profile. **Minimum requirements are a broom finish and acid etching, if using LM Bond-Kote as an adhesion promoter but shot blasting or hydro blasting is preferred.**

C. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt, and other foreign matter before any coatings are applied.

D. Water used in all mixtures shall be fresh and potable.

E. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

F. Do not apply coatings to a cold surface. Surface and air temperature must be a minimum of 50ºF (10ºC) and rising. A minimum temperature of 50°F must be maintained during the entire installation process to include 24-hours before and after the installation.

G. Shaded areas will be cooler with slower curing times. Special precautions should be taken to ensure all coatings cure sufficiently prior to application of additional coatings.

H. Do not apply coatings if extremely high humidity prevents drying.

I. No coatings are to be applied if surface temperatures exceed 130°F (54°C).

J. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

K. Color(s) of acrylic color coating system is to be selected by owner from manufacturer's product color card(s).

L. If all the above conditions are met, surfacing materials shall have a (2) two-year limited warranty as supplied by the manufacturer.

1.5 WARRANTY

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for two (2) year. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material furnished by APT in connection with the project. No salesman or other employee or agent of APT is

authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or implied, statutory or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental, or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

PART 2 – PRODUCTS

2.1 LAYKOLD CUSHION PLUS SYSTEM MATERIALS

A. All components of Laykold Cushion Plus system shall be supplied by Advanced Polymer Technology, an ISO 9001:2015 certified manufacturer. Laykold Cushion Plus system components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.

B. Epoxy Moisture mitigation Primer (concrete courts only). A two-component, 100% solids, solvent- free epoxy moisture mitigation primer. LM Bond-Kote (adhesion promoter) may be substituted where concrete's relative humidity, hydrostatic pressure, efflorescence, and staining are not a concern.

1. Percent Solids by Weight 98% (minimum)
2. Weight 9.01 lbs./gallon

C. LM Bond-Kote (concrete substrates only). A one-component PU/Acrylic hybrid emulsion used as a permeable concrete adhesion promoter. LM Bond-Kote is diluted 1 part LM Bond-Kote to 5 parts portable water and mixed until uniform.

1. Percent Solids by weight: 48% (minimum)
2. Weight: 8.9 lbs/gallon

D. Laykold Acrylic Resurfacer. Acrylic-based emulsion used for smoothing rough pavements. 1 to 2-coats as required. Laykold NuSurf is recommended for use on new asphalt pavements and is an acceptable substitute for Acrylic Resurfacer. Laykold NuSurf is not recommended on concrete substrates.

1. Percent Solids by Weight 52% (minimum)
2. Weight 10.7 lbs./gallon

E. Laykold Cushion Plus Granule. Acrylic emulsion fortified with 0.5-1.5mm SBR rubber granules that add resiliency to a pickleball surface. 2 to 4 coats required based on Pickleball Pro Plus system specified: Standard System - 2 coats Cushion Plus Granule, Xtreme System - 3 coats Cushion Plus Granule, and Supreme System - 4 coats Cushion Plus Granule.

1. Percent Solids by Weight 47.9% (minimum)
2. Weight 8.34 lbs/gallon

F. Laykold Cushion Plus Powder. Acrylic emulsion fortified with 0.0-0.5mm EPDM rubber powder used to fill, smooth and prepare the Cushion Plus Granule coats for the application of the color coats. 3 coats required.

1. Percent Solids by Weight 39.8% (minimum)

2. Weight 8.34 lbs./gallon

G. Advantage Laykold. A factory textured, pigmented wear-resistant acrylic emulsion. 2-coats required. No bagged sand is to be added at jobsite.

1. Percent Solids by Weight 72.9% (minimum)
2. Weight 12.52 lbs./gallon

H. Optional Laykold ColorCoat Concentrate finish batch mixture. Pigmented wear-resistant acrylic emulsion. 1-coat. Laykold Colorflex finish batch mixture is an acceptable substitute. A finish coat will speed up the surface pace of the court.

1. Percent Solids by Weight 49 % (minimum)
2. Weight: 9.47-9.52 lbs/gallon

I. Laykold Line Prime. Clear drying acrylic emulsion line primer. 1-coat required.

1. Percent Solids by Weight 29%
2. Weight: 8.9 lbs./gallon

J. Laykold Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint. 1-2 coats as required.

1. Percent Solids by Weight 67% (minimum)
2. Weight: 11.4 lbs./gallon

PART 3 – EXECUTION

3.1 INSPECTION

A. Inspect concrete or asphalt substrate for dryness. Report any discrepancies to general contractor or owner.

B. Surface of substrate shall be cleaned by general contractor as required.

C. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 PREPARATION

A. New Concrete or Existing Concrete Substrates

1. Concrete must be shot blasted, or hydro blasted to a CSP3 profile if an epoxy moisture mitigation primer is required. When using LM Bond-Kote as an adhesion promoter, concrete must have a minimum of a medium broom finish and acid etched (CSP3 Profile preferred) if using LM-Bond-Kote as an adhesion promoter.

2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼" below a 10-foot straight edge when measured in any

random path.

3. New concrete shall be cured for a minimum of 30 days before proceeding.

4. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the epoxy moisture mitigation application. All cracking and construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation. If using LM Bond-Kote, depression should be leveled before LM Bond-Kote application.

5. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

6. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.

2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

C. Previously Coated Asphalt Substrates

1. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

2. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues

3.3 INSTALLATION

A. Primer (for concrete substrates only): When installing the Laykold Cushion Plus system over concrete, LM Bond-Kote must be applied as the first layer of the system. If applying a breathable system or RH tests less than 75%, LM Bond-Kote can be applied. LM Bond-Kote is mixed by diluting 1 part LM Bond-Kote with 5 parts portable water and mixing using a low-speed jiffy mixer (400 to 600 rpm) until uniform

(3-5 minutes). Spread the mixed primer on the substrate using a 36” 55

durometer squeegee to achieve a total coverage of approximately 0.02 gal/yd^2 (0.09 kg/m^2 – 450ft^2/gal). Allow to fully dry before proceeding.

If the concrete substrate tests with an RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) or greater than 3 lbs./1000 sqft/24 hours, more cure time is required, or an epoxy moisture mitigation can be used. Manufacture's guidelines should be followed when applying the epoxy mitigation primer.

Note: Only use material that naturally flows out of the pail. Do not scrape, bang, or place pail upside down to force additional materials out of the pail.

B. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.

1. Surface Leveling: Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch binder slurry. Prime area with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand and Type 1 Portland cement. Mix as per manufacturer directions.

   Note: Laykold Poly Primer (Patch Mix) is an acceptable substitute for leveling materials.

2. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions.

   Note: Laykold Crack Filler and QualiCaulk are acceptable substitutes for crack filling materials**.**

3. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.

C. Cushion Plus Granule Rubber: Apply 2 to 4 coats of Laykold Cushion-Plus Granule (based on system desired: 2 coats Cushion Plus Standard, 3 coats Cushion Plus Xtreme, 4 coats Cushion Plus Supreme) using a 24", 30" or 36" wide 50 Durometer flexible rubber squeegee.. Batch mix shall consist of 55 gallons (240 kg) of Cushion Plus Granule and 22-27 gallons (83-90 kg) of potable water. DO NOT ADD SAND to any cushion coats! The AVERAGE application rate for the Cushion Plus Granule coats shall equal .20 gal/yd2 (.91 kg/m2 - 45 ft2/gal) per coat. Allow each coat to dry completely (minimum 5 hours) before proceeding with the next coat of Cushion- Plus or water vapor may become trapped between the cushion layers causing peeling and blisters.

D. Cushion Plus Powder Rubber: Apply 3 coats of Laykold Cushion Plus Powder using a 24", 30" or 36" wide 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (235 kg) of Cushion Plus Powder to 22 gallons (83 kg) of potable water. DO NOT ADD SAND to cushion coats! The average application rate for the Cushion Plus Powder coats shall equal 0.12 gal/yd2 (0.61 kg/m2 - 75 ft2/gal) per coat. Each coat shall be applied perpendicular (90 degrees) to the previous coat. Please note that the first application of Cushion Plus Powder will use the
greatest amount of material as it begins to fill the rough texture created by the larger base rubber coats. The 2nd and 3rd applications of the small filler rubber will use less material with each coat for

an overall average consumption rate of 0.12 gal/yd2 (0.61 kg/m2 - 75 ft2/gal) per coat. Allow each coat to dry completely (minimum 5 hours) before proceeding with the next coat of Cushion- Plus or water vapor may become trapped between the cushion layers causing peeling and blisters.

E. Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270- 400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat.

Note: Cushion Plus system should be sanded smooth with a floor sander and 12-24 grit paper.

F. Textured Color Coats:

Apply two coats of Advantage Laykold factory textured color using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons (170 kg) of Advantage Laykold and 6.5-8.5 gallons (25 to 32 kg) of potable water. The application rate shall be 0.06-0.07 gal/yd^2 (0.41-0.47 kg/m^2 - 130-150 ft^2/gal) of undiluted Advantage Laykold per coat.

Optional Finish Coat – Smoother Surface Texture

Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

G. Game Lines:

1. Wait a minimum of 24 hours after final color coat before applying line paint.
2. All lines are to be applied by painting between masking tape with a paintbrush or roller according to USA Pickleball. and ASBA. specifications.
3. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.
4. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.
5. Remove masking tape immediately after lines are dry.
6. Allow lines to dry a minimum of 24 hours before allowing play on court.

H. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

3.4 PROTECTION

A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.

B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.

C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for

a period of one week after completion.

D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.

E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

Acrylic, all-weather pickleball systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather pickleball systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

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Rev1 WAB 03/19/23

Cushion Plus System

General Description

Laykold Cushion Plus offers a series of industry leading, liquid applied, cushioned hard court surfacing systems. Laykold Cushion Plus Granule rubber and Laykold Cushion Plus Powder rubber are encapsulated in Advanced polymer Technology's (APT) resilient proprietary binder. Based on the Cushion Plus system, specified layers of Cushion Plus Granule and Cushion Plus Powder are squeegee and/or spray applied to create elastic, shock absorbing layers for more comfortable play and a more enjoyable post play experience.

All components of the Laykold Cushion Plus system are environmentally friendly and free of asbestos, Lead, and Mercury.

Features and Benefits

- Adds resiliency to hard court surfaces
- Available in 3 comfort levels
- Manufactured in USA to ISO 9001 and ISO 14001 standards
- Large selection of topcoat colors
- Environmentally friendly

LAYKOLD CUSHION PLUS SYSTEMS

- 1 application of Laykold Acrylic Resurfacer
- 2-4 applications of Laykold Cushion Plus Granule
  - ✓ Cushion Plus Standard system: 2 applications
  - ✓ Cushion Plus Xtreme system: 3 applications
  - ✓ Cushion Plus Supreme system: 4 applications
- 3 applications of Laykold Cushion Plus Powder
- 1 application of Laykold Acrylic Resurfacer
- 2-3 applications of Laykold ColorCoat Concentrate, Advantage Laykold, or Laykold ColorFlex as specified.

Laykold Cushion Plus Granule is a latex-based emulsion product fortified with 0.5-2.0 mm EPDM rubber granules and acrylic fiber to add resiliency and strength to a hard court surface.

Laykold Cushion Plus Powder is a latex-based emulsion fortified with 0.0-0.5 mm EPDM rubber powder. It is designed for use with Laykold Cushion Plus Granule applications. The smaller Cushion Plus powder rubber and acrylic fibers fill voids created during Cushion Plus Granule applications while smoothing and strengthening the shock absorbing layers.

Laykold ColorCoat Concentrate, Advantage Laykold (factory textured), and Laykold ColorFlex color systems as specified may be used to surface the Laykold Cushion Plus system.

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

Laykold Cushion Plus Granule and Laykold Cushion Plus Powder should be kept dry, cool and in original packaging. Laykold Cushion Plus Granule and Laykold Cushion Plus Powder have a shelf life of 1 year.

Packaging: Laykold Cushion Plus Granule and Cushion Plus Powder – 55 gallon drum (212 kg)

Coverage

Granule Cushion Coat (0.5-2.0 mm) coverage averages approximately 0.20 gal/yd2 (0.91 kg/^{2} or 45 ft^2/gal) per application of undiluted material

Powder Cushion Coat (0-0.5 mm) coverage averages approximately 0.12 gal/yd^2 (0.61 kg/m^2 or 75 ft^2/gal) per application of undiluted material

Coverage may vary slightly based on substrate texture, application technique, and weather conditions.

Installation Guidelines

When diluted with water, each material must be mixed thoroughly until consistent. The amount of water added may vary slightly due to temperature and weather conditions. The mixed products shall be applied to the surface using a soft, rubber squeegee. DO NOT add silica sand to Cushion Plus Granule or Powder. The finished applications shall have a uniform appearance and shall be free from any ridges. NOTE: Please be very careful that each coat is completely cured before applying the next coat. If water is trapped between layers, peeling and bubbling may occur.

Cushion Plus Granule Batch Mixture
55 gallon of Granule Cushion Coat (0.5-2.0)
20-24 gallon of water

Cushion Plus Powder Batch Mixture
55 gallon of Powder Cushion Coat (0-0.5 mm)
20-22 gallon of water

Limitations

- Minimum surface and application temperature: 10°C (50°F)
- Maximum surface and application temperature: 54°C (130°F)
- Do not allow to freeze
- Do not over dilute with water
- Drying time of at least 5 hours between Cushion Plus applications. Additional drying time is needed for indoor applications and when in the shade

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

Cushion Plus Granule	
Density	0.95-1.05 g/cm^3
Viscosity	30,000-40,000 cPs
Cushion Plus Powder	
Density	0.95-1.05 g/cm^3
Viscosity	4,400-8,400 cPs

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications

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Deep Patch

General Description

Laykold Deep Patch is a high strength acrylic cement modifier. An advantage of using Laykold Deep Patch is that it cures quickly making a hard, tough, and durable patch. Laykold Deep Patch does not contain asbestos, Lead, or Mercury.

Basic Use: Laykold Deep Patch is designed for mixing with Portland cement and sand for use as court patch. It can be used over new or existing asphalt or concrete recreational surfaces. Laykold Deep Patch can also be used to fill cracks and will not sink like elastomeric crack fillers..

Features and Benefits

- Quick curing
- Environmentally friendly
- Can be used over new or existing asphalt or concrete recreational surfaces
- Contains no asbestos, Lead, or Mercury
- Excellent Court Patch Binder

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

Laykold Deep Patch should be kept dry, cool and in original packaging. Laykold Deep Patch has a shelf life of 1 year.

Packaging: 55 gallon drum (215 kg/drum) or 6 gallon pail at 5.28 gallon (20 kg/pail)

Coverage

For thin patches of 3/8" or less:
Premix 5 gallons dry, 90 mesh silica sand with 1 gallon of Type 1 Portland Cement. Add 1-2 gallons of Laykold Deep Patch and mix thoroughly with a mechanical mixer.

For patches ¾" or less:
Premix 5 gallons dry, 60 mesh silica sand with 1 gallon of Type 1 Portland Cement. Add 2-3 gallons of Laykold Deep Patch and mix thoroughly with a mechanical mixer.

For patches greater than ¾":
Patch in successive lifts, each no greater than ¾". Follow the previous mixing instructions and leave the first coat in a rough condition to provide an additional mechanical bond. It is imperative that each coat is sully cured prior to application of the second coat.

Installation Guidelines

The surface upon which Laykold Deep Patch is to be applied must be free of dirt, loose and flaking paint, vegetation, chemical or oily residues, or any other substances that might inhibit good adhesion. Mechanically roughening the area will aid in adhesion and should be done if the area is too smooth. Do not mix more material than can be placed in 15 minutes.

A trowel or straight edge should be used to apply material. Should the material become stiff while working, dip tool in clean water for easier working. Edges of the patch should always be “feathered” so there is a smooth transition at the edge of the patch. It is sometimes necessary to use a coat of Laykold Acrylic Resurfacer mix to blend in the patch. Patches filled with Laykold Deep Patch must be allowed to thoroughly cure prior to applying the next coating application. Cure time depends on the depth of the patch and may take up to 24 hours.

Limitations

- Minimum surface and application temperature: 10°C (50°F)
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply when rain is imminent
- Do not use calcium chloride or calcium chloride-based mixtures in Laykold Deep Patch
- Drying time depends on weather and patch thickness
- DO NOT ADD WATER. Adjust viscosity by adding more Laykold Deep Patch.
- Fresh hot mix asphalt surfaces continue to move for several months, and any acrylic modified concrete patch may have a tendency to crack as the substrate moves
- If white staining is experienced over the patched area, too much concrete is being used in the mix

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC	0 g/L*
Appearance	Liquid, White

*Based on standard formula calculation

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Rev 4 WAB 03.02.2023

Epoxy VTB (Qualipur 182)

General Description

Laykold Epoxy VTB (Qualipur 182) is a unique 2-component, low viscosity, moisture tolerant epoxy primer/sealer that prevents the transmission of moisture and water vapor through concrete slabs (topside vapor barrier). Laykold Epoxy VTB (Qualipur 182) reduces water vapor transmission levels of up to 25 lb/24 hr • 1,000 ft2 (100% Relative Humidity)..

Safety Guidelines

Refer to SDS. Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during the application process.

Part A – irritant; sensitizer – contains epoxy resin
Part B – corrosive; sensitizer – contains amines.

Storage and Packaging

Laykold Epoxy VTB (Qualipur 182) should be kept dry, cool and in original packaging. Laykold Epoxy VTB (Qualipur 182) has a shelf life of 1 year.

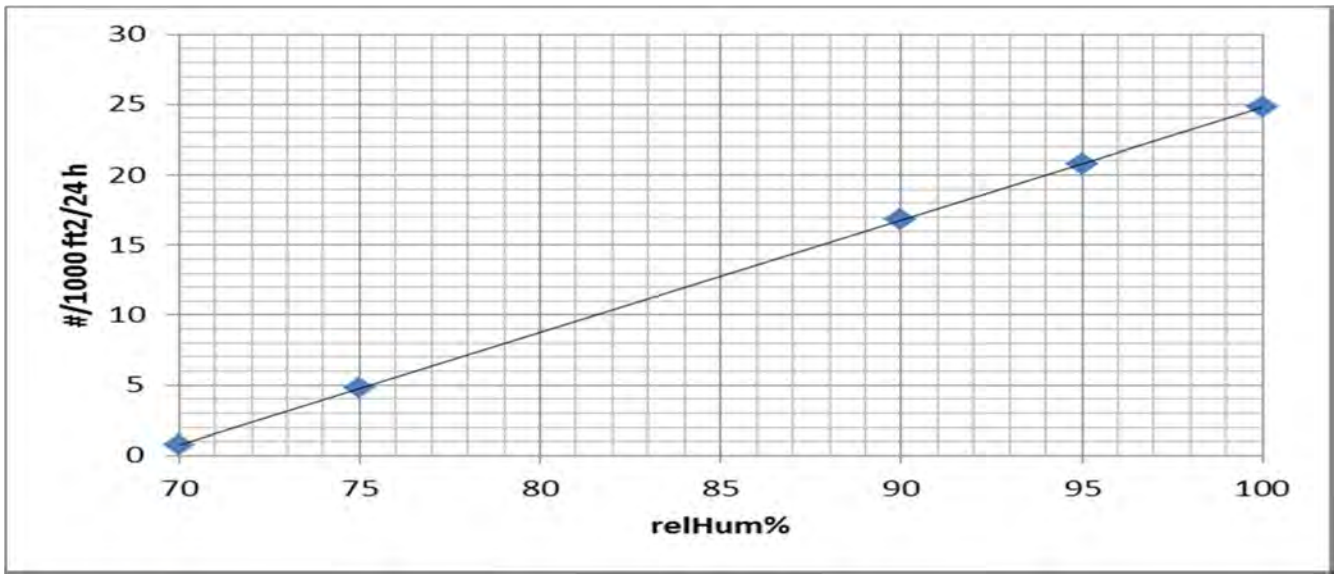
Packaging: 2.5 gallon kit
- Part A – Resin (7.74 kg)
- Part B – Hardener (2.86 kg)

Features and Benefits

- Topside vapor barrier
- Low VOC
- Reduces MVER of up to 25 lb (100% RH)
- Good penetration into pores and substrate
- Tested according to ASTM D 7324
- Covers new concrete (minimum 6 days old)
- Applied to dry or damp concrete

Coverage

Laykold Epoxy VTB (Qualipur 182) Application Rates and Yield of 2.5 Gallon Kit				
Moisture Vapor Emission Rate (per ASTM F 1849)	**Relative Humidity (RH)**	**Application Rate**	**Yield per 2.5 gal kit**	**Approximate Thickness**
lb/24 hr • 1,000 ft2	(per ASTM F 2170)	ft2/gal	ft2	mils
0-17	<90%	130	325	12
17-21	90-95%	100	250	16
21-25	100%	90	225	18
Stand-alone coating on slab		80	200	20
New concrete (minimum 6 days old)		90	225	18
NOTE: All values theoretical. Application thicknesses are approximate. Some variation may apply due to porosity and absorption of substrate				



Installation Guidelines

Water Vapor Emission Testing – Indoor ONLY

All areas to be treated must be tested in accordance with F 1869-98 (Anhydrous Calcium Chloride testing) or probe testing per ASTM F 2170 to determine the MVER (moisture vapor emission rate) in lb/24 hr • 1,000 ft^2 or RH (Relative Humidity) content (%).

Contaminants Testing

Slabs with unknown history should be tested for contaminants (i.e. hydrocarbons, other organic compounds, unreacted silicates, ASR, sulfurous compounds) to determine suitability for Laykold poxy VTB (Qualipur 182).

Concrete must be structurally sound, free of deleterious materials, and capable of withstanding abrasive shot blast surface preparation.

1. Remove existing floor coverings, coatings, adhesives, curing compounds, efflorescence, dust, grease, laitance, etc. down to bare concrete with steel shot blasting, scarifying, or grinding using a diamond cup blade (run with low RPM and assure that surface is profiled). Standard acid etching **ALONE IS NOT ALLOWED**.
2. Steel shot blast or Hydro blast concrete slabs to surface profile ICRI CSP 3
3. Burn off reinforcing fibers and vacuum remains
4. Repair larger cracks with a suitable patching mortar

Mixing

Use chemical resistant gloves and goggles when mixing or applying Laykold Epoxy VTB (Qualipur 182). Product should be a minimum 60°F (15°C) at time of mixing. Part A and Part B are supplied in the appropriate mix ratio. Allow Part B to drain completely into Part A. Mixing is accomplished mechanically with an appropriate mix paddle. Mix for 4-5 minutes at about 300 rpm to a homogenous consistency. Avoid any action that may entrap air. Ensure that the material at the pail bottom and sides are agitated. DO NOT THIN.

Installation

Pour the entire pail over the area to be treated and uniformly distribute with a flat squeegee. Follow with a non-shed roller, back rolling at a right angle (90°) to the squeegee application to achieve a uniform coverage. Allow the primer to cure for 8 hours before proceeding with additional coatings. If going from Laykold Epoxy VTB (Qualipur 182) to acrylics, Laykold Masters Bond-Kote must be used as a PU/Acrylic interface adhesion promoter.

NOTE: Laykold Epoxy VTB (Qualipur 182) must be coated within 24 hours of application, or if it becomes contaminated or dirtied (including rain), Laykold Epoxy VTB (Qualipur 182) must be lightly sanded and solvent wiped to promote proper adhesion of Laykold Masters Bond-Kote.

Limitations

- Minimum surface and application temperature: 10°C (50°F)
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply over any gypsum-based products or unprotected surfaces or surface where water has accumulated (puddles)
- Do not use as a wear surface
- MVER may fluctuate within slab areas and can have significant seasonal variations
- Product is not UV stable and needs top coated after installation
- Do not use curing additives
- Do not scrape buckets. Use only what naturally flows out of the pail.
- Must be coated within 24 hours. If not coated within 24 hours, coating must be sanded with 24 grit paper and solvent wiped.
- If moisture buildup on surface, solvent wipe before sequential coating.
- Acceptable solvents for wiping: Toluene, Acetone, and Xylene

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC		80 g/L*
Viscosity		400-800 cPs
Pot Life		40-50 minutes
Color		Clear
Mixing Ratio		100:37 (by weight)
Tack Free Time		5-7 hours
Cure Time – Foot Traffic		24 hours
Cure Time – Final Cure		7 days
Adhesion to Cement	ASTM D 7234	100% Substrate Failure

*Based on standard formula calculation

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FlexFill

General Description

Laykold Masters FlexFill is a sand-filled, high quality, flexible, 100% acrylic emulsion. Laykold Masters FlexFill is an excellent acrylic filler coat. Laykold Masters Flexfill does not contain any asbestos, Lead, or Mercury.

Basic Use: Laykold Masters FlexFill is designed as a flexible filler coat underlying textured topcoat.

Features and Benefits

- Environmentally friendly
- High Quality
- Flexible
- Excellent Acrylic filler coat
- Does no contain Asbestos, Lead or Mercury

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

Laykold Masters FlexFill should be kept dry, cool, and in original packaging. Laykold Masters FlexFill has a shelf life of 1 year.

Packaging: 5-gallon pail at 26.50 kg

Coverage

Laykold Masters FlexFill coverage is approximately 0.325 kg/m^2 (0.05 gal/yd^2 or 180 ft^2/gal) per application of undiluted material.

Installation Guidelines

When adding water, Laykold Masters FlexFill must be mixed thoroughly until the material is consistent. The mixed product shall be applied to the surface using a soft, rubber squeegee. The finished application shall have a uniform appearance and be free of ridges and tool marks. If more than one application is necessary, the 2nd coat should be pulled at a 90° angle to the 1st.

Limitations

- Minimum surface and application temperature: 10°C (50°F)
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply when rain is imminent
- Do not allow to freeze
- Do not over dilute with water
- Dry time: 2-4 hours, dependent upon weather conditions

Technical Data

Results based on temperature of 73°F (23°C) and 50% Humidity

Viscosity	35,000-45,000 cPs
Tensile Strength	Avg. 0.94 N/mm^2
Elongation	24.7%
Mixing Ratio by Weight	5:1 (Water)

*Based on standard formula calculation

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Line Paint

General Description

Laykold Line Paint is a water-based, 100% acrylic emulsion line marking paint formulated without solvents or oils that tend to attack the underlying surface. Laykold Line Paint is environmentally friendly containing no asbestos, Lead, and Mercury.

Basic Use: Laykold Line Paint is used for marking lines over color coating materials on tennis courts, basketball courts, and other recreational surfaces.

Colors: White, Black, Blue, Red, and Yellow.

Features and Benefits

- Environmentally friendly
- Water-based
- Contains no solvents or oils
- Contains no asbestos, Lead, or Mercury
- Good hiding properties

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

Laykold Line Paint should be kept dry, cool and in original packaging. Laykold White Line Paint has a shelf life of 1 year.

Packaging: 5-gallon unit or 2 gallon unit (2 gallon units are packaged in jugs at 1 gallon each). Black, Blue, Red, and Yellow are only available in 5-gallon units.

Coverage

Laykold Line Paint coverage is approximately 0.75-1.0 gallon (3.9-5.2 kg) of line paint per standard size tennis court.

Installation Guidelines

Wait approximately 24 hours after applying color coatings before applying Laykold Line Paint. For indoor installations, wait until color coating materials are thoroughly cured.

Mix Laykold Line Paint completely before applying. **DO NOT** add water. Tape and measured lines should be in accordance with the United States Tennis and Track Builders Association specifications.

Using a high-quality roller, roll line paint for 1-2 coats, as specified. To improve crispness of the finished line, prime the tape, prior to application of the Line Paint, prime with Line Primer or the same finish color coat material in which the surface has been coated.

Limitations

- Minimum surface and application temperature: 10°C (50°F)
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply when rain is imminent
- Do not allow to freeze
- Do not dilute
- Drying time: 2-4 hours, dependent upon weather conditions

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC	29.5 g/L*
Viscosity	25,000-35,000 cPs

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications

Consult the Safety Data Sheet (SDS) for more details

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Rev 4 WAB 03.02.2023

Line Prime

General Description

Laykold Line Prime is a 100% acrylic clear drying emulsion primer that is applied prior to Laykold White Line Paint. The use of Laykold Line Prime assures crisp, sharp lines and a professional quality finish to the court surface. Laykold Line Prime is environmentally friendly containing no asbestos, Lead, and Mercury.

Basic Use: Laykold Line Prime is designed to fill the minor voids between the tape and the court surface.

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Features and Benefits

- Crisp, sharp lines
- Professional quality finish
- Environmentally friendly
- Contains no asbestos, Lead, or Mercury
- One component

Storage and Packaging

Laykold Line Prime should be kept dry, cool and in original packaging. Laykold Line Prime has a shelf life of 1 year.

Packaging: 2-gallon unit (2 gallon units are packaged in jugs at 1 gallon each).

Coverage

Depending on the surface porosity and texture, the consumption rate is 500-600 feet of 2” line per gallon. One set of tennis court lines typically requires 1-gallon of Laykold Line Prime.

Installation Guidelines

Apply Laykold Line Prime undiluted with a paintbrush or roller after masking tape is put down. Laykold Line Prime dries within 10 to 15 minutes in good weather conditions. Do not apply masking tape and Laykold Line Prime if rain is imminent. Once Laykold Line Prime is dry, Laykold White Line Paint may be applied. Remove masking tape immediately after playing lines are dry.

Limitations

- Minimum surface and application temperature: 10°C (50°F)
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply when rain is imminent
- Do not allow to freeze
- Do not dilute with water
- Completed projects should be allowed a minimum for 48 hours drying time before releasing for play. **CAUTION:** acrylic coatings can take 2 to 4 weeks to fully cure depending on weather conditions.

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

Flammability	Non-Flammable
Flash Point	None
Color	Milky White, clear when dry

*Based on standard formula calculation

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Rev 5 WAB 03.02.2023

Masters 5 System Spec

Part 1: General

1.1 Description

A. Scope: This guideline specification covers the installation of the Laykold Masters 5 system. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A. provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. The Laykold Masters 5 system is a resilient, polyurethane/rubber/acrylic composite system utilizing polyurethane bound rubber shock pads with a highly flexible acrylic color finish. The system increases player comfort by significantly reducing shock to the back and lower extremities. The Laykold Masters 5 system should be applied only to properly prepared concrete or asphalt substrates. This cushioned tennis and athletic surface is comprised of LM FlexFill (New Asphalt Only), Laykold Epoxy VTB Primer (Qualipur 182) (Concrete Only), LM Adhesive, LM 5 Shock Pad, Laykold Crack Filler, LM Filler, and the LM Topcoat.

B. Court Construction: Refer to the American Sports Builders Association (ASBA) manual Tennis Courts: A Construction & Maintenance Manual for court construction details. This publication may be obtained by calling the ASBA at 443-640-1042 or visiting www.sportsbuilders.org.

1.2 Quality Assurance

A. All tennis court surfacing materials shall be Laykold Masters 5 System as supplied by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001, and ISO 14001 certified manufacturer. APT may be contacted via telephone 888-266-4221, fax 724-452-1703, or web sites www.laykold.com and www.advpolytech.com.

B. All work shall be done in accordance with American Sports Builders Association (ASBA) guidelines.

C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

E. Installation must be performed by a manufacturer trained and authorized LM Dealer.

1.3 Submittals

A. Submit one set of Advanced Polymer Technology “Laykold Masters 5 Specifications.”

B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.

C. Submit current Safety Data Sheets (SDS).

D. Submit current ISO Quality Management System Certification certificate.

1.4 WORKING CONDITIONS & LIMITATIONS

A. Asphalt substrates shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings.

B. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt, and other foreign matter before any coatings are applied.

C. Concrete substrates must be shot blasted, or hydro blasted to a CSP3 profile. Refer to Laykold Guideline Installation for Concrete Surface Preparation.

D. Concrete Substrates on grade (in ground) or with a relative humidity (RH) > 75% must have Qualipur 182 (Laykold Epoxy VTB Primer) applied to prevent moisture issues.

E. Water used in all mixtures shall be fresh and potable.

F. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

G. Do not apply coatings to a cold substrate. Surface and air temperatures must be at least 50ºF (10ºC) and rising. A minimum of 50ºF must be maintained during the entire installation process to include 24-hours before and after the installation.

H. Shaded areas will be cooler with slower curing times. Special precautions should be taken to ensure all coatings cure sufficiently prior to application of additional coatings.

I. Do not apply coatings if extremely high humidity prevents drying.

J. No coatings are to be applied if surface temperatures exceed 130°F (54° C).

K. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

L. LM Topcoat color(s) to be selected by owner from manufacturer's product color card(s).

M. If all the above conditions are met, surfacing materials shall have a Five-Year limited warranty as supplied by the manufacturer.

1.5 Warranty

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for five (5) years. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material furnished by APT in connection with the project. No salesman or other employee or agent of APT is authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or implied, statutory, or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

Part 2 – Products

2.1 Laykold Masters 5 System Components

A. All components of Laykold Masters 5 system shall be supplied by Advanced Polymer Technology, an ISO 9001 and 14001 certified manufacturer. Masters 5 system components shall not contain any lead, mercury, nor any heavy metals, PCB, or formaldehyde.

B. LM FlexFill: a highly flexible acrylic emulsion used for asphalt substrate surface preparation. Used on new asphalt substrates only.

C. Laykold Epoxy VTB Primer: a two-component epoxy primer for use on concrete substrates on grade or RH > 75%.

D. LM Adhesive: a two-component polyurethane adhesive for adhering shock pad to asphalt or concrete substrates.

E. LM 5 Shock Pad: a 4-mm thick pre-engineered polyurethane bound rubber mat.

F. Laykold Crack Filler: a rubber fortified two-component polyurethane used to fully seal the shock pad and edges to protect it from the weather.

G. LM Bond-Kote: a water-based adhesion promoter between polyurethane and acrylic coatings.

H. LM Filler: a flexible, factory textured acrylic emulsion used as an interface coating to set a foundation for the pigmented acrylic coatings.

I. LM Topcoat: a flexible, pigmented, wear and weather resistant color coat emulsion for use with Laykold Masters 5 Systems.

J. Laykold Line Prime: a clear drying acrylic emulsion line primer.

K. Laykold Textured White Line Paint: a factory textured, wear-resistant acrylic line marking paint.

Part 3 – Execution

3.1 Inspection

A. Inspect concrete or asphalt substrate for dryness. Report any discrepancies to general contractor.

B. Surface of substrate shall be cleaned by general contractor as required.

C. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 Preparation

A. New Concrete or Existing Concrete Substrates

1. Concrete must be shot blasted, or hydro blasted hammered to a CSP3 profile.
2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼” below a

10-foot straight edge when measured by any random path.

3. New concrete shall be cured for a minimum of 30 days before proceeding.

4. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the Laykold Epoxy VTB Primer (Qualipur 182) application. All cracking and construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation.

5. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

6. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.

2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

5. After all patching, leveling and crack filling has been performed; new asphalt pavements are to be filled with one to two applications, as needed, of LM FlexFill. Failure to properly fill new asphalt pavements will result in excessive LM Adhesive consumption.

C. Previously Coated Asphalt Substrates

1. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

2. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

3.3 Installation

A. Laykold Epoxy VTB Primer: Must be used when installing a Laykold Masters system over new concrete or existing concrete substrates where RH value exceeds 75% according to ASTM F 2170. Laykold Epoxy VTB Primer is mixed by premixing "Part A" for 1 minute, then pouring the "B" component into the "A" component and mixing using a low-speed jiffy mixer (400 to 600 rpm) for 2 minutes. Do not incorporate air when mixing. Spread Laykold Epoxy VTB Primer on the substrate using a 36" 55 durometer squeegee and high-quality, 18" medium nap rollers to achieve a total coverage of approximately 0.12 gal/yd^2 or 75 ft^2/ gal. The working time for Laykold Epoxy VTB Primer is approximately 40 - 50 minutes on the ground and is

reduced in high temperatures. Allow 8 to 10 hours drying time before proceeding.

NOTE: Only use material that naturally flows out of the pail. Do not scrape, bang, or place pail upside down to force additional materials out of pail.

B. LM FlexFill (Asphalt Only): Apply the Laykold FlexFill using a 36" wide 55 Durometer flexible rubber squeegee. Thoroughly mix the Laykold FlexFill until the material is consistent in color and texture. The application rate shall be 0.05-07 gal/yd^2 or 130-180 ft^2/gal of undiluted Laykold, per coat. Each coat should be completely dry before applying subsequent coats.

C. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 20 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/8 inch shall be outlined and patched.

1. Surface Leveling – Asphalt:

i. Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch binder slurry. Prime area with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand, and Type 1 Portland Cement. Mix as per manufacturer directions. LM PU Primer (used as a mastic) is an acceptable substitution.

2. Surface Leveling – Concrete:

i. Birdbaths shall be leveled using LM PU Primer after the Laykold Epoxy VTB Primer has fully cured. LM PU Primer is mixed by premixing "Part A" for 1 minute, then pouring the "B" component into the "A" component and mixing using a low-speed jiffy mixer (400 to 600 rpm) for 2 minutes. Do not incorporate air when mixing. Split the mixed LM PU Primer equally into 2 clean, dry 5-gallon pails. Add 1 bag (50- lbs) of 40-60 mesh clean, dry silica sand and mix until uniform. Once batch is uniformly blended, pour contents into depression and level with a screed. Allow to cure 4-6 hours before proceeding with additional coatings. LM PU Primer (used as a mastic) is an acceptable substitution.

3. Crack Filling - Asphalt: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions. Refer to Laykold Deep Patch technical data sheet for additional mixing details and application instructions for filling various sized cracks. Laykold Crack Filler and Qualicaulk are acceptable substitutes.

4. Cracks and Construction Joints – Concrete: Cracks and construction joints shall be cleaned and filled with caulking designed for waterproofing or moisture mitigation such as BASF Masterseal NP-1 or Tremco Dymonic 100.

5. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method. LM PU Primer (used as a mastic) is an acceptable substitution.

D. Install Laykold Masters 5 system according to guidelines provided by Advanced Polymer Technology Corp., Harmony, PA.

3.4 Protection

A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.

B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.

C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for a period of one week after completion.

D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.

E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

3.5 Maintenance

A. Dirt Contamination

1. Broom, wash or blow dirt off court on a regular basis.
2. Annual pressure washing of court surface is recommended.
3. Most dirt and stains can be removed with a neutral pH cleaner used in proper dilution. Pre-test cleaner on small area in corner of court.

B. Proper maintenance procedures and housekeeping practices should be performed on a timely as needed basis.

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

Please read all safety data sheets and technical data sheets before using any of the Laykold/Laykold Masters Primers. For complete and latest warranty and product information, please visit advpolytech.com

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Adhesive

General Description

Laykold Masters Adhesive is a thixotropic, two component polyurethane adhesive.

Basic Use: Laykold Masters Adhesive is designed for indoor and outdoor use to adhere prefabricated SBR mat to concrete, wood, and asphalt.

Features and Benefits

- No VOC
- Thixotropic
- Easy application
- Excellent sealer
- Composed of more than 40% renewable resources

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during application.

Storage and Packaging

Laykold Masters Adhesive should be kept dry, cool, and in original packaging. Laykold Masters Adhesive has a shelf life of 1 year.

Packaging: 26 kg kit (approximately 4.43-gallon unit).

Coverage

Laykold Masters Adhesive coverage is approximately 0.60-1.0 kg/m^2 (0.20-0.34 gal/yd^2 or 26-45 ft^2/gal).

Installation Guidelines

Before application, the surface must be clean, dry, and free of oil, grease, dirt, and foreign residue. Concrete substrates should have a light broom finish for proper adhesion. New asphalt and concrete substrates require a 28-day cure before application.

Laykold Masters Adhesive should be applied with a notched trowel. Laykold Masters Adhesive Parts A and B must be power mixed for a least 5 minutes prior to application.

Limitations

- Minimum surface and application temperature: 10°C (50°F)
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply over wet substrate.

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC	0 g/L*
Density	1.52-1.58 g/cm
Viscosity	Thixotropic
Color	Light Green to Green
Mixing Ratio by Weight (A:B)	4:1
Pot Life	70-110 minutes

*Based on standard formula calculation

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Bond-Kote

General Description

Laykold Masters Bond-Kote is specially designed latex emulsion primer.

Basic Use: Laykold Masters Bond-Kote is designed to bond polyurethanes systems to water-based systems. Laykold Masters Bond-Kote can also be diluted with water and used as a concrete adhesion promoter.

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during application process.

Storage and Packaging

Laykold Masters Bond-Kote should be kept dry, cool, and in original packaging. Laykold Masters Bond-Kote has a shelf life of 1 year.

Packaging: 5-gallon pail at 18.93 kg.

Features and Benefits

- Easy to apply
- Intermediate between water-based and polyurethane systems
- Excellent bond strength between hard to bind systems
- Excellent concrete adhesion promoter

Coverage

Interface between PU and Acrylics

Laykold Masters Bond-Kote coverage is approximately 0.20 kg/m^2 (0.05 gal/yd^2 or 200 ft^2/gal) for rough surfaces (i.e., fiberglass scrim or textured surfaces) and 0.09 kg/m^2 (0.02 gal/yd^2 or 450 ft^2/gal) for smooth surfaces (i.e., Qualipur 182 or LM Wearcoat).

Concrete Adhesion Promoter

Laykold Masters Bond-Kote coverage is 0.09 kg/m^2 (0.02 gal/yd^2 or 450 ft^2/gal) of undiluted material.

Installation Guidelines

Before application, the surface must be clean, dry, and free of oil, grease, dirt, and foreign residue.

Interface between PU and Acrylics

Laykold Masters Bond-Kote is ready to use; therefore, diluting is not recommended. To obtain uniform coverage, Laykold Masters Bond-Kote should be applied with a high-quality roller (profiled surface) or rubber squeegee (smooth surface).

Concrete Adhesion Promoter

Laykold Masters Bond-Kote as a concrete adhesion promoter needs to be diluted 1 part LM Bond-Kote to 5 parts water. Diluted material should be applied with a high-quality roller. When using Laykold Masters Bond-Kote as a concrete adhesion promoter, the concrete surface should be mechanical abraded to a CSP3 profile to ensure proper adhesion.

Limitations

- Minimum surface and application temperature: 10°C (50°F)
- Maximum surface and application temperature: 54°C (130°F)
- Do not allow to freeze
- Do not over dilute with water
- Dry time of 2-4 hours, dependent upon weather conditions

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

Density	0.97-1.07 g/cm^3
Viscosity	3,500-4,500 cPs
Tensile Strength	Avg. 3.66 N/mm^2
Elongation	498.3%

*Based on standard formula calculation

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Gel

General Description

Laykold Masters GEL is a two (2) component, polyurethane based coating designed as an environmentally friendly, non-porous force reduction layer with a high renewable and low VOC content. Laykold Masters GEL can be applied in a single application.

Basic Use: Laykold Masters GEL creates a non-porous force reduction layer for multi-purpose sport surfaces including tennis and basketball.

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during application.

Features and Benefits

- Low VOC
- Easy to apply
- Can be casted as one base layer
- High renewable content
- Creates a force reduction layer for a non-porous sport surface

Storage and Packaging

Laykold Masters GEL should be kept dry, cool, and in original packaging. Laykold Masters GEL has a shelf life of 1 year.

Laykold Masters GEL is packaged as follows:
- Laykold Masters GEL Part A – 3.18 gallon (13.26 kg)
- Laykold Masters GEL Part B – 1.90 gallon (7.56 kg)

Coverage

The standard consumption rate is 2.64 lb/yd^2 (1.3 kg/m^2) per 1-mm thickness.

Installation Guidelines

The surface to be coated must be clean, dry, and free of oil, grease, dirt, and any foreign residue. Mix for a minimum of two (2) minutes, transfer to another container, and mix again for 1 minute with proper drill and paddle, or inline machinery. Application temperature should be at least 10°C (50°F) and rising. Temperatures below 10°C (50°F) will retard the curing process. To obtain uniform coverage, Laykold Masters GEL should be applied with a notched trowel.

Limitations

- Minimum surface and application temperature: 10°C (50°F)
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply over wet substrate
- Permissible relative humidity: 10-90%

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC	0.8 g/L*
Density	1.05-1.15 g/cm3
Viscosity	Thixotropic
Mixing Ratio by Weight (A:B)	100:57
Pot Life	20-40 minutes
Renewables	67%
Shore A Hardness	25-35

*Based on standard formula calculation

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PU Primer

General Description

Laykold Masters PU Primer is a 2-component, solvent-free, low viscosity polyurethane primer with superior adhesion and sealing properties. It is resistant to most acids, alkalizes, and numerous other chemicals. Laykold Masters PU Primer is an excellent concrete primer for substrates with less than 75% relative humidity (RH). Laykold Masters PU Primer can also be used to block rust and stain migration from asphalt or concrete substrates through Laykold Masters Color system.

Basic Use: Laykold Masters PU Primer is used to prime properly prepared concrete substrates with RH levels less than 75%. IT can also be used to block rust stain migration from asphalt and concrete substrates.

Features and Benefits

- Blocks MVT of less than 75% RH
- Nonflammable
- Solvent-free
- Quick cure time
- Easy application
- Optimal penetration
- Outstanding bond strength
- Blocks rust and stain migration

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during application.

Storage and Packaging

Laykold Masters PU Primer should be kept dry, cool, and in original packaging. Laykold Masters PU Primer has a shelf life of 1 year.

Packaging: 12.3 kg kit (approximately 3-gallon unit)

Coverage

Laykold Masters PU Primer coverage is approximately 0.145 kg/m^2 (0.03 gal/yd^2 or 300 ft^2/gal) for a standard 4 mil application.

Testing and Installation Guidelines

New concrete substrates shall be installed with a vapor barrier according to ASBA guidelines and finished to a CSP3 profile. No use of curing agents is allowed. New concrete substrates shall be allowed to cure a minimum of 30 days and asphalt shall be allowed to cure a minimum of 14 days. Existing concrete shall be brought to a CSP3 surface profile by mechanical methods such as shot-blasting or hydro-blasting. All **indoor** concrete substrates must be tested for relative humidity (RH) content before application of Laykold Masters PU Primer.

Indoor Only: Probe testing in accordance with ASTM F 2170 shall be performed on various areas to determine the concrete's relative humidity (RH) content (%). If the RH is less than 75%, Laykold Masters PU Primer may be applied. If the RH is 75% to 100%, allow the concrete additional cure time until RH drops below 75%. If approved, Anhydrous Calcium Chloride testing in accordance with ASTM F 1869-98 may be substituted for probe testing. Testing must show a moisture vapor emission rate (MVER) of 3 lb or less per 1,000 ft2 in a 24-hour period before Laykold Masters PU Primer can be applied.

OPTION: Laykold Epoxy VTB Primer (Qualipur 182), a top-side vapor barrier can be applied to

concrete with RH levels higher than 75% after a minimum of 5 days cure. Refer to Laykold Epoxy VTB Primer (Qualipur 182) Technical Data Sheet (TDS) for additional information.

Laykold Masters PU Primer is supplied ready to mix as a 2-component product. Pour entire contents of component B into component A and mix with a jiffy paddle and low speed drill (400-600 rpm). Do not incorporate excessive air into the product. Mix for two minutes, scrape down the sides or pail, and mix for an additional minute.

Apply Laykold Masters PU Primer with a high-quality medium nap roller or airless spray unit. Apply a uniform film at a steady pace to avoid formation of air bubbles or pooling of product. If bubbles form, spike, or back roll bubbles. If moving straight to acrylics, seed with over-dried quartz aggregate sand (20-40 mesh) at a rate of 5 lb per 100 ft2 (0.25 kg/m2) while the primer is wet. Allow to cure for 4-6 hours before proceeding with additional coatings.

Limitations

- Minimum surface and application temperature: 4°C (40°F) and rising
- Do not apply over wet substrate
- Do not apply to surfaces with active moisture vapor transmission
- Conduct an adhesion test prior to use on asphalt substrates

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC		7.1 g/L*
Solid Content		100%
Renewable Content		44.74%
Viscosity	ASTM D 2196	600-1,000 cPs
Pot Life	ASTM C 603	40-60 minutes
Tack Free Time		4-6 hours
Foot Traffic	ASTM C 920	24 hours
Final Cure		7 days
Adhesion to Concrete	ASTM D 7234	100% Substrate Failure
Moisture Vapor Transmission	ASTM E 96	Avg. 0.214 grains/hour•ft^2
Tear Resistance	ASTM D 1040	Avg. 212+ lb/in^2 depending on the system
Flash Point	ASTM D 93	Non-Flammable

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications

Consult the Safety Data Sheet (SDS) for more details

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Topcoat

General Description

Laykold Masters Topcoat is a wear-resistant, sand-filled, 100% acrylic emulsion consisting of high-quality pigments and polymers to produce an easy to apply color coating material. Laykold Masters Topcoat does not contain any asbestos, Lead, or Mercury.

The benefit of Laykold Masters Topcoat is that only water is added at the jobsite. It already contains the proper type, size, and ratio of silica sand to create a medium play speed tennis court surface. The result is an easy to mix material that produces a consistent speed of play for every court.

Basic Use: Laykold Masters Topcoat can be applied to asphalt, properly prepared concrete, and properly prepared rubber mat for protection, beautification, and surface speed adjustment of tennis courts.

Colors: Laykold Masters Topcoat is available in twelve (12) colors – Medium Green, Dark Green, Forest Green, Grass Green, Brick Red, Beige, Grey, Burgundy, Light Blue, Dark Blue, Pro Blue, and Royal Purple. Additional colors are available upon request.

Features and Benefits

- International Tennis Federation classified
- Easy to apply
- Environmentally friendly
- Sand premixed into product – only water addition necessary
- Does not contain asbestos, Lead, or Mercury
- Variety of colors

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

Laykold Masters Topcoat should be kept dry, cool, and in original packaging. Laykold Masters Topcoat has a shelf year of 1 year.

Packaging: 5-gallon pail at 28.39 kg

Coverage

Laykold Masters Topcoat coverage is approximately 0.41-0.47 kg/m^2 (0.06-0.07 gal/yd^2 or 130-150 ft^2/gal) per application of undiluted material.

Coverage may vary depending on substrate porosity and texture.

Installation Guidelines

Existing surface shall be dry, clean, and free from all dirt, dust, and foreign debris. When adding water, Laykold Masters Topcoat must be mixed thoroughly until the material is consistent.

Thoroughly mix the Laykold Masters Topcoat until the material is consistent in color and texture. Apply lengthwise, the first coat of Laykold Masters Topcoat using a squeegee. When cured, scrape or sand out imperfections. Apply the second coat of Laykold Masters Topcoat lengthwise and follow with a fine synthetic broom. Each coat should be completely dry before applying subsequent coats.

Limitations

- Minimum surface and application temperature: 10°C (50°F)
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply when rain is imminent
- Do not allow to freeze
- Do not over dilute with water
- Dry time: 2-4 hours, dependent upon weather conditions
- Minimum 1 hour to recoat

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC	17 g/L*
Density	1.45-1.55 g/cm^3
Viscosity	30,000-40,000 cPs
Tensile Strength	Avg. 1.61 N/mm
Elongation	6.5%
Mixing Ratio by Weight	4:1 (Water)

*Based on standard formula calculation

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Wearcoat

General Description

Laykold Masters Wearcoat is a two component, polyurethane-based coating made from renewable resources.

Basic Uses: Laykold Masters Wearcoat is designed as a wear coat layer for indoor and outdoor elastic surfaces. Typical areas of application include tennis courts and basketball courts.

Features and Benefits

- Can be used for a variety of applications
- Low VOC
- Composed of more than 55% renewable resources
- Easy to apply

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during the application process.

Storage and Packaging

Laykold Masters Wearcoat should be kept in original packaging in a dry and cool environment. Do not expose containers to open flame, excessive heat, or direct sunlight. Shelf life of product stored in sealed container is 12 months.

Laykold Masters Wearcoat is packaged in 16.83 kg kits (approximately 4.19 gallons)

Coverage

The standard consumption rate is 1.84 lbs/yd2 (1 kg/m2) per 1 mm thickness.

Installation Guidelines

The surface to be coated must be clean, dry, and free of oil, grease, dirt, and any foreign residue. Laykold Masters Wearcoat Parts A and B must be powered mixed. Pre-mix the color component, empty the smaller component into the larger container, mix thoroughly prior to application, for at least 2 - 4 minutes (depending on design of power equipment and application conditions), to obtain uniform blending. To obtain uniform coverage, Laykold Masters Wearcoat should be applied with a notched trowel.

Limitations

- Do not apply over wet substrates
- Substrate and application minimum temperature 10°C (50°F)
- Substrate and application maximum temperature 29°C (84°F)
- Permissible relative humidity 40 - 60%

Technical Data

Testing conditions: 23°C (73°F) and 50% Humidity

VOC	8.07 g/L*
Renewable Resources	55.38 %
Density	1.03 to 1.09 g/cm³
Viscosity	800 to 1200 cPs
Mixing Ratio by Weight (A:B)	2.9:1
Pot Life	40 to 60 minutes
Shore A Hardness	70 to 80
Over coat time	8 hours
Final Cure Time	7 days

*Based on standard formula calculation

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Filler

General Description

Laykold Masters Filler is a tough, wear-resistant, sand-filled, acrylic latex emulsion that is light green in color. Laykold Masters Filler does not contain any asbestos, Lead, or Mercury.

Basic Use: Laykold Masters Filler can be job-mixed with water and used as a filler coat underlying Laykold Masters Topcoat.

Features and Benefits

- Environmentally friendly
- Does not contain asbestos, Lead, or Mercury
- No VOC

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

Laykold Masters Filler should be kept dry, cool, and in original packaging. Laykold Masters Filler has a shelf life of 1 year.

Packaging: 5-gallon pail at 28.39 kg

Coverage

Laykold Masters Filler coverage is approximately 0.30-0.38 kg/m2 (0.10-0.13 gal/yd2 or 70-90 ft2/gal) per application of undiluted material.

Installation Guidelines

When adding water, Laykold Masters Filler must be mixed thoroughly until the material is consistent. The mixed product shall be applied to the surface using a soft, rubber squeegee. Two (2) applications of Laykold Masters Filler (minimum) are necessary.

Limitations

- Minimum surface and application temperature: 10°C (50°F)
- Maximum surface and application temperature: 54°C (130°F)
- Do not apply when rain is imminent
- Do not allow to freeze
- Do not over dilute with water
- Dry time: 2-4 hours, dependent upon weather conditions
- Minimum 1 hour to recoat

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC	17 g/L*
Density	1.45-1.55 g/cm^3
Viscosity	30,000-40,000 cPs
Tensile Strength	Avg. 1.61 N/mm
Elongation	6.5%
Mixing Ratio by Weight	5:1 (Water)

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications

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NuSurf G2

General Description

Laykold NuSurf G2 is a high grade, acrylic emulsion that is designed for three important functions: crack filling, resurfacing and crack bridging. NuSurf G2 can be used as a crack filling compound by adding silica sand. Silica Sand and water can be added to create a flexible filler coat acrylic Resurfacer substitute. When only mixed with water, NuSurf G2 can be used as a highly effective crack bridging membrane for asphalt and concrete substrates prevent or correct mild to moderate surface cracks.

Laykold NuSurf G2 is designed to be part of the Laykold system or approved cushioned, free floating, and fabric crack repair systems.

NuSurf G2 does NOT contain any asbestos, Lead, or Mercury.

Features and Benefits

- Environmentally Friendly
- Ability to bridge mild to moderate surface cracks
- Highly flexible
- Versatile product with many uses
- Does not contain asbestos, Lead, or Mercury
- Excellent for loose lay fabric crack repair systems

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

Laykold NuSurf G2 should be kept in a cool, dry area in original container. Laykold NuSurf G2 has a shelf life of 1 year.

Packaging: 5-gallon pail (17 kg), 30-gallon drum (108 kg), and 55 gallon (200 kg)

Coverage

The consumption rate is approximately 0.07-0.09 gal/yd2 (0.35-0.45 kg/m2 or 190-210 ft2/gal) for NuSurf G2 Membrane Mixture.

Installation Guidelines

Before application, the surface must be clean, dry, and free of oil, grease, and foreign residue. New asphalt should be allowed a 14-day curing period and concrete should be allowed a 30-day curing period before applying and coating.

Prior to application of any coating, the entire area should be flooded with water and checked for depressions of 1/16” or greater. Depressions shall be leveled using Deep Patch. Refer to individual Technical Data Sheet (TDS) for mixture and application details.

Crack Repair Mixture

NuSurf G2 may be used to fill very minor depressions (1/8” or less) by mixing 1-part NuSurf G2 to 1 part 60-80 mesh silica sand. Only add a small amount of water, if necessary, to achieve workability.

Resurfacer (Filler) Mixture
55-gallon NuSurf G2
400-500 lbs 60-80 mesh silica sand
12.5-gallon water

Membrane Mixture
55-gallon NuSurf G2
7.5-gallon water

When adding water and/or silica sand, NuSurf G2 must be mixed thoroughly until the material is consistent. The amount and size of sand may be varied to achieve different textures and selling properties.

The mixed product shall be applied to the surface using a soft, rubber squeegee. The finished application shall have uniform appearance and be free of ridges and tool marks. If more than one application is necessary, the 2nd coat should be pulled at a 90° angle to the 1st.

Limitations

- Maximum surface temperature: 130°F (54°C)
- Minimum temperature: 50°F (10°C)
- Do not apply when rain is imminent
- Do not allow to freeze
- Do not over dilute with water
- Drying time of 2-4 hours depending in weather
- Laykold surfacing systems/products WILL NOT prevent pavement cracks from occurring and reoccurring.

Technical Data

Results based on temperature of 77°F (25°C) and 50% Humidity

Density	0.97 – 1.07 g/cm^3
Viscosity	7,000 – 17,000 cps
Tensile Strength	4.5 N/mm2
Elongation	560%

*Based on standard formula calculation

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Pickleball Pro Plus System Specification

PART 1 – GENERAL

1.1 DESCRIPTION

A. Scope: This guide specification covers the application of the Laykold Pickleball Pro Plus system. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. The Laykold Pickleball Pro Plus system is a resilient, multilayered acrylic emulsion and SBR rubber particles application designed to provide the pickleball player with added comfort for a more enjoyable playing experience by reducing shock to the back and lower extremities. This surfacing system should be applied only to properly prepared concrete or asphalt substrates. The Laykold Pickleball Plus system is comprised of Laykold Acrylic Deep Patch, Laykold Acrylic Resurfacer, Laykold Cushion Plus Granule (2-4 coats based on specified system), Laykold Cushion Plus Powder (3-coats), Laykold Advantage, Laykold Line Prime and Laykold, and Textured White Line Paint. When applying the Laykold Pickleball Pro system to a concrete substrate, an epoxy topside barrier primer (≥ 75% RH), or LM Bond-Kote (adhesion promoter), is required.

B. Court Construction: Refer to the ASBA/USA Pickleball Construction Manual Pickleball Courts: A Construction & Maintenance Manual for court construction details. This publication may be obtained by visiting usapickleball.org or www.sportsbuilders.org.

1.2 QUALITY ASSURANCE

A. All pickleball court surfacing materials shall be Laykold as manufactured by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001 certified manufacturer. APT may be contacted via telephone 888-266-4221, fax 724-452-1703, or www.advpolytech.com.

B. All work shall be done in accordance with USA Pickleball and American Sports Builders Association (ASBA) guidelines.

C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.3 SUBMITTALS

A. Submit one set of Advanced Polymer Technology's "Laykold Pickleball Pro Plus System Specifications".

B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.

C. Submit current Safety Data Sheets.

D. Submit current ISO Quality Management System Certification certificate.

1.4 WORKING CONDITIONS & LIMITATIONS

A. Asphalt substrates shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, an epoxy moisture mitigation primer can be applied to 5-day old (minimum) concrete substrates according to manufacturer guidelines.

B. If an epoxy moisture mitigation primer is required, concrete substrate must be shot blasted, or hydro blasted to a CSP3 profile. **Minimum requirements are a broom finish and acid etching, if using LM Bond-Kote as an adhesion promoter but shot blasting or hydro blasting is preferred.**

C. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt, and other foreign matter before any coatings are applied.

D. Water used in all mixtures shall be fresh and potable.

E. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

F. Do not apply coatings to a cold surface. Surface and air temperature must be a minimum of 50ºF (10ºC) and rising. A minimum temperature of 50°F must be maintained during the entire installation process to include 24-hours before and after the installation.

G. Shaded areas will be cooler with slower curing times. Special precautions should be taken to ensure all coatings cure sufficiently prior to application of additional coatings.

H. Do not apply coatings if extremely high humidity prevents drying.

I. No coatings are to be applied if surface temperatures exceed 130°F (54°C).

J. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

K. Color(s) of acrylic color coating system is to be selected by owner from manufacturer's product color card(s).

L. If all the above conditions are met, surfacing materials shall have a (2) two-year limited warranty as supplied by the manufacturer.

1.5 WARRANTY

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for two (2) year. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material

furnished by APT in connection with the project. No salesman or other employee or agent of APT is authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or implied, statutory or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental, or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

PART 2 – PRODUCTS

2.1 LAYKOLD PICKLEBALL PRO PLUS SYSTEM MATERIALS

A. All components of Laykold Pickleball Pro system shall be supplied by Advanced Polymer Technology, an ISO 9001 certified manufacturer. Laykold Pickleball Pro system components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.

B. Epoxy Moisture mitigation Primer (concrete courts only). A two-component, 100% solids, solvent- free epoxy moisture mitigation primer. LM Bond-Kote (adhesion promoter) may be substituted where concrete's relative humidity, hydrostatic pressure, efflorescence, and staining are not a concern.

1. Percent Solids by Weight 98% (minimum)
2. Weight 9.01 lbs./gallon

C. LM Bond-Kote (concrete substrates only). A one-component PU/Acrylic hybrid emulsion used as a permeable concrete adhesion promoter. LM Bond-Kote is diluted 1 part LM Bond-Kote to 5 parts portable water and mixed until uniform.

1. Percent Solids by weight: 48% (minimum)
2. Weight: 8.9 lbs/gallon

D. Laykold Acrylic Resurfacer. Acrylic-based emulsion used for smoothing rough pavements. 1 to 2-coats as required. Laykold NuSurf is recommended for use on new asphalt pavements and is an acceptable substitute for Acrylic Resurfacer. Laykold NuSurf is not recommended on concrete substrates.

1. Percent Solids by Weight 52% (minimum)
2. Weight 10.7 lbs./gallon

E. Laykold Cushion Plus Granule. Acrylic emulsion fortified with 0.5-1.5mm SBR rubber granules that add resiliency to a pickleball surface. 2 to 4 coats required based on Pickleball Pro Plus system specified: Standard System - 2 coats Cushion Plus Granule, Xtreme System - 3 coats Cushion Plus Granule, and Supreme System - 4 coats Cushion Plus Granule.

1. Percent Solids by Weight 47.9% (minimum)
2. Weight 8.34 lbs/gallon

F. Laykold Cushion Plus Powder. Acrylic emulsion fortified with 0.0-0.5mm EPDM rubber powder used to fill, smooth and prepare the Cushion Plus Granule coats for the application of the color coats. 3 coats required.

1. Percent Solids by Weight 39.8% (minimum)
2. Weight 8.34 lbs./gallon

G. Advantage Laykold. A factory textured, pigmented wear-resistant acrylic emulsion. 2-coats required. No bagged sand is to be added at jobsite.

1. Percent Solids by Weight 72.9% (minimum)
2. Weight 12.52 lbs./gallon

H. Optional Laykold ColorCoat Concentrate finish batch mixture. Pigmented wear-resistant acrylic emulsion. 1-coat. Laykold Colorflex finish batch mixture is an acceptable substitute. A finish coat will speed up the surface pace of the court.

1. Percent Solids by Weight 49 % (minimum)
2. Weight: 9.47-9.52 lbs/gallon

I. Laykold Line Prime. Clear drying acrylic emulsion line primer. 1-coat required.

1. Percent Solids by Weight 29%
2. Weight: 8.9 lbs./gallon

J. Laykold Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint. 1-2 coats as required.

1. Percent Solids by Weight 67% (minimum)
2. Weight: 11.4 lbs./gallon

PART 3 – EXECUTION

3.1 INSPECTION

A. Inspect concrete or asphalt substrate for dryness. Report any discrepancies to general contractor or owner.

B. Surface of substrate shall be cleaned by general contractor as required.

C. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 PREPARATION

A. New Concrete or Existing Concrete Substrates

1. Concrete must be shot blasted, or hydro blasted to a CSP3 profile if an epoxy moisture mitigation primer is required. When using LM Bond-Kote as an adhesion promoter, concrete must have a minimum of a medium broom finish and acid etched (CSP3 Profile preferred) if using LM-Bond-Kote as an adhesion promoter.

2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼" below a 10-foot straight edge when measured in any

random path.

3. New concrete shall be cured for a minimum of 30 days before proceeding.

4. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the epoxy moisture mitigation application. All cracking and construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation. If using LM Bond-Kote, depression should be leveled before LM Bond-Kote application.

5. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

6. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.

2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

C. Previously Coated Asphalt Substrates

1. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

2. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues

3.3 INSTALLATION

A. Primer (for concrete substrates only): When installing the Laykold Pickleball Pro System over concrete, LM Bond-Kote must be applied as the first layer of the system. If applying a breathable system or RH tests less than 75%, LM Bond-Kote can be applied. LM Bond-Kote is mixed by diluting 1 part LM Bond-Kote with 5 parts portable water and mixing using a low-speed jiffy mixer (400 to 600 rpm) until uniform

(3-5 minutes). Spread the mixed primer on the substrate using a 36” 55

durometer squeegee to achieve a total coverage of approximately 0.02 gal/yd^2 (0.09 kg/m^2 – 450ft^2/gal). Allow to fully dry before proceeding.

If the concrete substrate tests with an RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) or greater than 3 lbs./1000 sqft/24 hours, more cure time is required, or an epoxy moisture mitigation can be used. Manufacture's guidelines should be followed when applying the epoxy mitigation primer.

Note: Only use material that naturally flows out of the pail. Do not scrape, bang, or place pail upside down to force additional materials out of the pail.

B. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.

1. Surface Leveling: Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch binder slurry. Prime area with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand and Type 1 Portland cement. Mix as per manufacturer directions.

   Note: Laykold Poly Primer (Patch Mix) is an acceptable substitute for leveling materials.

2. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions.

   Note: Laykold Crack Filler and QualiCaulk are acceptable substitutes for crack filling materials**.**

3. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.

C. Cushion Plus Granule Rubber: Apply 2 to 4 coats of Laykold Cushion-Plus Granule (based on system desired: 2 coats Cushion Plus Standard, 3 coats Cushion Plus Xtreme, 4 coats Cushion Plus Supreme) using a 24", 30" or 36" wide 50 Durometer flexible rubber squeegee.. Batch mix shall consist of 55 gallons (240 kg) of Cushion Plus Granule and 22-27 gallons (83-90 kg) of potable water. DO NOT ADD SAND to any cushion coats! The AVERAGE application rate for the Cushion Plus Granule coats shall equal .20 gal/yd2 (.91 kg/m2 - 45 ft2/gal) per coat. Allow each coat to dry completely (minimum 5 hours) before proceeding with the next coat of Cushion- Plus or water vapor may become trapped between the cushion layers causing peeling and blisters.

D. Cushion Plus Powder Rubber: Apply 3 coats of Laykold Cushion Plus Powder using a 24", 30" or 36" wide 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (235 kg) of Cushion Plus Powder to 22 gallons (83 kg) of potable water. DO NOT ADD SAND to cushion coats! The average application rate for the Cushion Plus Powder coats shall equal 0.12 gal/yd2 (0.61 kg/m2 - 75 ft2/gal) per coat. Each coat shall be applied perpendicular (90 degrees) to the previous coat. Please note that the first application of Cushion Plus Powder will use the
greatest amount of material as it begins to fill the rough texture created by the larger base rubber coats. The 2nd and 3rd applications of the small filler rubber will use less material with each coat for

an overall average consumption rate of 0.12 gal/yd2 (0.61 kg/m2 - 75 ft2/gal) per coat. Allow each coat to dry completely (minimum 5 hours) before proceeding with the next coat of Cushion- Plus or water vapor may become trapped between the cushion layers causing peeling and blisters.

E. Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270- 400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat.

Note: Pickleball Pro Plus system should be sanded smooth with a floor sander and 12-24 grit paper.

F. Textured Color Coats:

Apply two coats of Advantage Laykold factory textured color using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons (170 kg) of Advantage Laykold and 6.5-8.5 gallons (25 to 32 kg) of potable water. The application rate shall be 0.06-0.07 gal/yd^2 (0.41-0.47 kg/m^2 - 130-150 ft^2/gal) of undiluted Advantage Laykold per coat.

Optional Finish Coat – Smoother Surface Texture

Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

G. Game Lines:

1. Wait a minimum of 24 hours after final color coat before applying line paint.
2. All lines are to be applied by painting between masking tape with a paintbrush or roller according to USA Pickleball. and ASBA. specifications.
3. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.
4. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.
5. Remove masking tape immediately after lines are dry.
6. Allow lines to dry a minimum of 24 hours before allowing play on court.

H. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

3.4 PROTECTION

A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.

B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.

C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for

a period of one week after completion.

D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.

E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

Acrylic, all-weather pickleball systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather pickleball systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

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Pickleball Pro System Specification

PART 1 – GENERAL

1.1 DESCRIPTION

A. Scope: This guide specification covers the application of the Laykold Pickleball Pro system. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. The Laykold Pickleball Pro system is designed and used for the protection, beautification and surface pace for a variety of all-weather athletic and recreational surfaces. Laykold products should only be applied to properly prepared concrete or asphalt substrates. The Laykold Pickleball Pro system is comprised of Laykold Acrylic Deep Patch, Laykold Acrylic Resurfacer, Advantage Laykold, Laykold Line Prime, and Laykold Textured White Line Paint. When applying the Laykold Pickleball Pro system to a concrete substrate, an epoxy topside barrier primer (≥ 75% RH), or LM Bond-Kote (adhesion promoter), is required.

B. Court Construction: Refer to the ASBA/USA Pickleball Construction Manual Pickleball Courts: A Construction & Maintenance Manual for court construction details. This publication may be obtained by visiting usapickleball.org or www.sportsbuilders.org.

1.2 QUALITY ASSURANCE

A. All pickleball court surfacing materials shall be Laykold as manufactured by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001 certified manufacturer. APT may be contacted via telephone 888-266-4221, fax 724-452-1703, or www.advpolytech.com.

B. All work shall be done in accordance with USA Pickleball and American Sports Builders Association (ASBA) guidelines.

C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.3 SUBMITTALS

A. Submit one set of Advanced Polymer Technology's "Laykold Pickleball Pro System Specifications".

B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.

C. Submit current Safety Data Sheets.

D. Submit current ISO Quality Management System Certification certificate.

1.4 WORKING CONDITIONS & LIMITATIONS

A. Asphalt substrates shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, an epoxy moisture mitigation primer can be applied to 5-day old (minimum) concrete substrates according to manufacturer guidelines.

B. If an epoxy moisture mitigation primer is required, concrete substrate must be shot blasted, or hydro blasted to a CSP3 profile. **Minimum requirements are a broom finish and acid etching, if using LM Bond-Kote as an adhesion promoter but shot blasting or hydro blasting is preferred.**

C. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt, and other foreign matter before any coatings are applied.

D. Water used in all mixtures shall be fresh and potable.

E. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

F. Do not apply coatings to a cold surface. Surface and air temperature must be a minimum of 50ºF (10ºC) and rising. A minimum temperature of 50°F must be maintained during the entire installation process to include 24-hours before and after the installation.

G. Shaded areas will be cooler with slower curing times. Special precautions should be taken to ensure all coatings cure sufficiently prior to application of additional coatings.

H. Do not apply coatings if extremely high humidity prevents drying.

I. No coatings are to be applied if surface temperatures exceed 130°F (54°C).

J. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

K. Color(s) of acrylic color coating system is to be selected by owner from manufacturer's product color card(s).

L. If all the above conditions are met, surfacing materials shall have a (2) two-year limited warranty as supplied by the manufacturer.

1.5 WARRANTY

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for two (2) year. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material furnished by APT in connection with the project. No salesman or other employee or agent of APT is

authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or implied, statutory or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental, or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

PART 2 – PRODUCTS

2.1 LAYKOLD PICKLEBALL PRO SYSTEM MATERIALS

A. All components of Laykold Pickleball Pro system shall be supplied by Advanced Polymer Technology, an ISO 9001 certified manufacturer. Laykold Pickleball Pro system components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.

B. Epoxy Moisture mitigation Primer (concrete courts only). A two-component, 100% solids, solvent- free epoxy moisture mitigation primer. LM Bond-Kote (adhesion promoter) may be substituted where concrete's relative humidity, hydrostatic pressure, efflorescence, and staining are not a concern.

1. Percent Solids by Weight 98% (minimum)
2. Weight 9.01 lbs./gallon

C. LM Bond-Kote (concrete substrates only). A one-component PU/Acrylic hybrid emulsion used as a permeable concrete adhesion promoter. LM Bond-Kote is diluted 1 part LM Bond-Kote to 5 parts portable water and mixed until uniform.

1. Percent Solids by weight: 48% (minimum)
2. Weight: 8.9 lbs/gallon

D. Laykold Acrylic Resurfacer. Acrylic-based emulsion used for smoothing rough pavements. 1 to 2-coats as required. Laykold NuSurf is recommended for use on new asphalt pavements and is an acceptable substitute for Acrylic Resurfacer. Laykold NuSurf is not recommended on concrete substrates.

1. Percent Solids by Weight 52% (minimum)
2. Weight 10.7 lbs./gallon

E. Advantage Laykold Color. A factory textured, pigmented wear-resistant acrylic emulsion. 2-coats required. No bagged sand is to be added at jobsite.

1. Percent Solids by Weight 72.9% (minimum)
2. Weight 12.52 lbs./gallon

F. Optional Laykold ColorCoat Concentrate finish batch mixture. Pigmented wear-resistant acrylic emulsion. 1-coat. Laykold Colorflex finish batch mixture is an acceptable substitute. A finish coat will speed up the surface pace of the court.

1. Percent Solids by Weight 49 % (minimum)
2. Weight: 9.47-9.52 lbs/gallon

G. Laykold Line Prime. Clear drying acrylic emulsion line primer. 1-coat required.
   1. Percent Solids by Weight 29%
   2. Weight: 8.9 lbs./gallon

H. Laykold Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint. 1-2 coats as required.
   1. Percent Solids by Weight 67% (minimum)
   2. Weight: 11.4 lbs/gallon

PART 3 – EXECUTION

3.1 INSPECTION

A. Inspect concrete or asphalt substrate for dryness. Report any discrepancies to general contractor or owner.

B. Surface of substrate shall be cleaned by general contractor as required.

C. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 PREPARATION

A. New Concrete or Existing Concrete Substrates

1. Concrete must be shot blasted, or hydro blasted to a CSP3 profile if an epoxy moisture mitigation primer is required. When using LM Bond-Kote as an adhesion promoter, concrete must have a minimum of a medium broom finish and acid etched (CSP3 Profile preferred) if using LM-Bond-Kote as an adhesion promoter.

2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼" below a 10-foot straight edge when measured in any random path.

3. New concrete shall be cured for a minimum of 30 days before proceeding.

4. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the epoxy moisture mitigation application. All cracking and construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation. If using LM Bond-Kote, depression should be leveled before LM Bond-Kote application.

5. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

6. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have

   a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.

2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

C. Previously Coated Asphalt Substrates

1. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

2. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues

3.3 INSTALLATION

A. Primer (for concrete substrates only): When installing the Laykold Pickleball Pro System over concrete, LM Bond-Kote must be applied as the first layer of the system. If applying a breathable system or RH tests less than 75%, LM Bond-Kote can be applied. LM Bond-Kote is mixed by diluting 1 part LM Bond-Kote with 5 parts portable water and mixing using a low-speed jiffy mixer (400 to 600 rpm) until uniform (3-5 minutes). Spread the mixed primer on the substrate using a 36" 55 durometer squeegee to achieve a total coverage of approximately 0.02 gal/yd^2 (0.09 kg/m^2 – 450ft^2/gal). Allow to fully dry before proceeding.

If the concrete substrate tests with an RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) or greater than 3 lbs/1000 sqf/24 hours, more cure time is required, or an epoxy moisture mitigation can be used. Manufacture's guidelines should be followed when applying the epoxy mitigation primer.

Note: Only use material that naturally flows out of the pail. Do not scrape, bang, or place pail upside down to force additional materials out of the pail.

B. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any

area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.

C. Surface Leveling: Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch binder slurry. Prime area with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand and Type 1 Portland cement. Mix as per manufacturer directions.

Note: Laykold Poly Primer (Patch Mix) is an acceptable substitute for leveling materials.

1. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions.

   Note: Laykold Crack Filler and QualiCaulk are acceptable substitutes for crack filling materials**.**

2. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.

D. Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270- 400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat.

Note: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold NuSurf is highly recommended for use on new asphalt pavements and/or older pavements that have experienced hairline surface cracking.

E. Textured Color Coats:

Apply two coats of Advantage Laykold factory textured color using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons (170 kg) of Advantage Laykold and 6.5-8.5 gallons (25 to 32 kg) of potable water. The application rate shall be 0.06-0.07 gal/yd^2 (0.41-0.47 kg/m^2 - 130-150 ft^2/gal) of undiluted Advantage Laykold per coat.

Optional Finish Coat – Smoother Surface Texture

Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

F. Game Lines:

1. Wait a minimum of 24 hours after final color coat before applying line paint.

2. All lines are to be applied by painting between masking tape with a paintbrush or roller according to USA Pickleball. and ASBA. specifications.
3. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.
4. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.
5. Remove masking tape immediately after lines are dry.
6. Allow lines to dry a minimum of 24 hours before allowing play on court.

G. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

3.4 PROTECTION

A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.

B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.

C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for a period of one week after completion.

D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.

E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

Acrylic, all-weather pickleball systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness, and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather pickleball systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

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Rev 1 WAB 03/19/23

Poly Primer (Qualipur 152)

General Description

Laykold Poly Primer (Qualipur 152) is a 2-component, solvent- free, low viscosity, polyurethane primer with superior adhesion and sealing properties. It is resistant to most acids, alkalizes, and numerous other chemicals. Laykold Poly Primer is an excellent concrete primer for substrates with less than 75% relative humidity. Laykold Poly Primer can also be used to block rust and stain migration from asphalt or concrete substrates through Laykold acrylic surfacing systems.

Basic Use: Laykold Poly Primer (Qualipur 152) is used to prime properly prepared concrete substrates with RH levels less than 75%. Laykold Poly Primer can be used to block rust and stain migration from asphalt and concrete substrates. Laykold Poly Primer can also be used as a mastic to level depressions.

Features and Benefits

- Non-Flammable
- Solvent-free
- Quick cure time
- Strong adhesion to concrete and asphalt
- Easy application
- Blocks MVT of less than 75% RH
- Optimal penetration
- Blocks rust and stain migration
- Mastic for leveling depressions

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during the application process.

Storage and Packaging

Laykold Poly Primer (Qualipur 152) should be kept dry, cool and in original packaging. Laykold Poly Primer (Qualipur 152) has a shelf life of 1 year.

Packaging: 3-gallon unit

Coverage

For a standard application on concrete or asphalt, Laykold Poly Primer (Qualipur 152) is applied at 4 mils at approximately 0.03-0.04 gal/yd^2 (0.20-0.25 kg/m^2 or 175-230 ft^2/gal).

Testing and Installation Guidelines

New concrete substrate shall be installed with a vapor barrier according to ASBA guidelines and finished to a CSP3 profile. No use of curing agents is allowed. New concrete substrates shall be allowed to cure a minimum of 30 days and asphalt shall be allowed to cure a minimum of 14 days. Existing concrete shall be brought to a CSP3 surface profile by mechanical methods such as shot-blasting or hydro-blasting. All concrete substrates must be tested for relative humidity (RH) content before application of Laykold Poly Primer.

Probe testing (**indoor only**) in accordance with ASTM F 2170 shall be performed on various areas to determine the concrete's relative humidity (RH) content (%). If the RH is less than 75%, Laykold Poly Primer may be applied. If the RH is 75% to 100%, allow the concrete additional cure time until RH drops below 75%. IF approved, Anhydrous Calcium Chloride testing in accordance with ASTM F 1869-98 may be substituted for probe testing. Testing must show a moisture vapor emission rate (MVER) of 3 lb or less per 1,000 ft2 in a 24-hour period before Laykold Poly Primer can be applied.

OPTION: Laykold Epoxy VTB Primer (Qualipur 182), a top-side vapor barrier can be applied to concrete with RH levels higher than 75% after a minimum of 5 days cure. Refer to Laykold Epoxy VTB Primer (Qualipur 182) Technical Data Sheet (TDS) for additional information.

Laykold Poly Primer (Qualipur 152) is supplied ready to mix as a 2-component product. Pour entire contents of component B into component A and mix with a jiffy paddle and low speed drill (400-600 rpm). Do not incorporate excessive air into the product. Mix for two minutes.

Primer

Apply Laykold Poly Primer (Qualipur 152) with a high-quality medium nap roller or airless spray unit. Apply a uniform film at a steady pace to avoid formation of air bubbles or pooling of product. If bubbles form, spike, or back roll bubbles. While the primer is wet, seed to refusal with over-dried quartz aggregate sand (20-40 mesh) at a rate of 5 lb per 100 ft^2 (0.25 kg/m^2). Allow to cure for 4-6 hours before proceeding with additional coatings.

Mastic

Split the mixed Laykold Poly Primer equally into 2 clean, dry 5 gallon pails. Add 1 bag (50 lb) of 40- 60 mesh clean, dry silica sand and mix until uniform. Once batch is uniformly blended, pour contents into depress and level with a screed. Allow the patch 5-10 minutes to set up and then broadcast with sand at a rate of 5 lb per 100 ft^2 (0.25 kg/m^2) or once cured, roll coat with LM Bond-Kote. Allow to cure for 4-6 hours before proceeding with additional coatings.

Limitations

- NOTE: Do not scrap down buckets or let sit upside down. Only use was naturally flows out of the pail.
- Work time of product will decrease as temperature rises
- Laykold Poly Primer (Qualipur 152) is not compatible with water or alcohols
- Minimum application temperature: 10°C (50°F)
- Do not apply when rain is imminent
- Do not apply over wet substrate
- Testing before application is required. Do not apply to substrates containing relative humidity (RH) levels exceeding 75% or with active moisture vapor transmission
- Allow adequate cure time for new asphalt and concrete substrates. A minimum 30-days for concrete and 14-days for asphalt

Technical Data

Results based on temperature of 23°C (73°F) and 50% Humidity

VOC		7.1 g/L*
Viscosity		600-1,000 cPs
Pot Life		40-60 minutes
Tack Free Time		4-6 hours
Cure Time – Foot Traffic		24 hours
Cure Time – Final Cure		7 days
Adhesion to Concrete	ASTM D 7234	100% Substrate Failure
Moisture Vapor Transmission	ASTM E 96	Avg. 0.214 grains/hour•ft^2
Tear Resistance	ASTM D 1004	Avg. 212+ lb/in^2 (depending on the system)

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications

Consult the Safety Data Sheet (SDS) for more details

For complete and latest warranty and product information, please visit www.advpolytech.com

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Laykold®

OFFICIAL COURT SURFACE OF THE
US OPEN

APT ADVANCED POLYMER TECHNOLOGY

STANDARD COLORS

Certified Quality

THE WORLD'S MOST TRUSTED COURT SURFACE



LAYKOLD
FOREST GREEN



LAYKOLD
DARK GREEN



LAYKOLD
MEDIUM GREEN



LAYKOLD
GRASS GREEN



LAYKOLD
DARK BLUE



LAYKOLD
LIGHT BLUE



LAYKOLD
PRO BLUE



LAYKOLD
ROYAL PURPLE



LAYKOLD
BRICK RED



LAYKOLD
BURGUNDY



LAYKOLD
DARK GREY



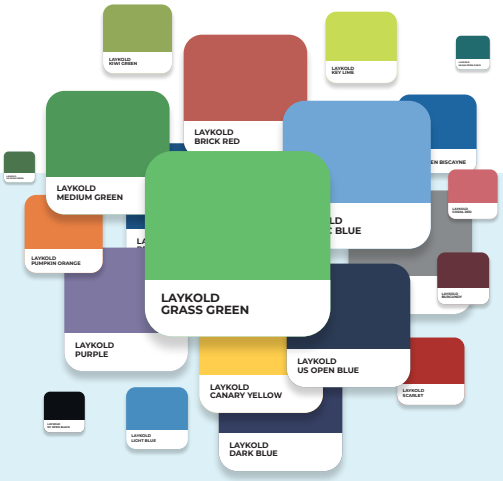
LAYKOLD
DESERT SAND

TECH HUB

For color combinations and system information visit the Laykold Technical Hub.
www.sportgroup-techhub.com/laykold

Colors are as accurate as possible. Slight variations may occur due to job site conditions, mixing proportions and installation methods.

CUSTOM COLORS
are available



US Open Performance! ISO Quality!

Trusted and chosen for the U.S Open, Miami Open, and many other prestigious hard court events, **Laykold** is the world's premier court surface.

The only court surface brand to combine Grand Slam performance with **ISO certified quality**, **Laykold** provides an elite status to sport and recreational facilities worldwide. Name your game ...tennis, pickleball, basketball, futsal, game courts, or urban play spaces...**Laykold** has the ideal court surface to satisfy every need and desire from recreational enthusiasts to the world's highest ranked professional athletes.

Be inspired by the court colors of the world's leading tournaments...US Open, Miami Open and Dallas Open...available exclusively by **Laykold**. Or, be creative with your own unique color combinations to match your club, school or personal preference.

Laykold, Sport Group's global court brand, is manufactured by **APT**, an **ISO 9001:2015 Quality Management Certified & 14001:2015 Environmentally Compliant** manufacturer, in Evans City, PA.

Product features

	HARDCOURT			CUSHION COURT						
	COLORCOAT, COLORFLEX	ADVANTAGE, PICKLEBALL PRO	MASTERS COLOR	CUSHION PLUS, PICKLEBALL PROPLUS	MASTERS 5, FLOAT PICKLEBALL	MASTERS GEL	MASTERS 8, FLOAT, INDOOR	MASTERS MONTREAL	MASTERS ROME	MASTERS PICKLEBALL GEL, GEL PLUS
Custom colors available	■	■	■	■	■	■	■	■	■	■
UV stable colors	■	■	■	■	■	■	■	■	■	■
Slip resistant, injury reduction	■	■	■	■	■	■	■	■	■	■
Long lasting, recoatable	■	■	■	■	■	■	■	■	■	■
Glare resistant	■	■	■	■	■	■	■	■	■	■
Environmentally friendly, no heavy metals or solvents	■	■	■	■	■	■	■	■	■	■
Specifically designed for demanding sports traffic		■								
Cushioned system				■	■	■	■	■	■	■
1 year warranty	■	■	■	■	■	■	■	■	■	■
2 year warranty		■	■	■	■	■	■	■	■	■
5 year warranty			■		■	■	■	■	■	■
Designed for existing substrates with cracks or imperfections					■	■	■	■	■	■
Excellent force reduction *Cushion level 10%+*				■	■	■	■	■	■	■
Outstanding force reduction *Cushion level 14%+*					■	■	■	■	■	■
Premium force reduction *Cushion level 20%+*							■	■	■	
Superior force reduction *Cushion level 60%+*								■	■	
Features APT's Green Technology						■				■
Structurally reinforced playing surface							■	■	■	
Uses a wood subfloor system for superior shock absorption								■	■	
Versatile and can be used for retrofits, new installations, overlays								■	■	
Use for events and as a temporary surface system									■	

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PICKLEBALL

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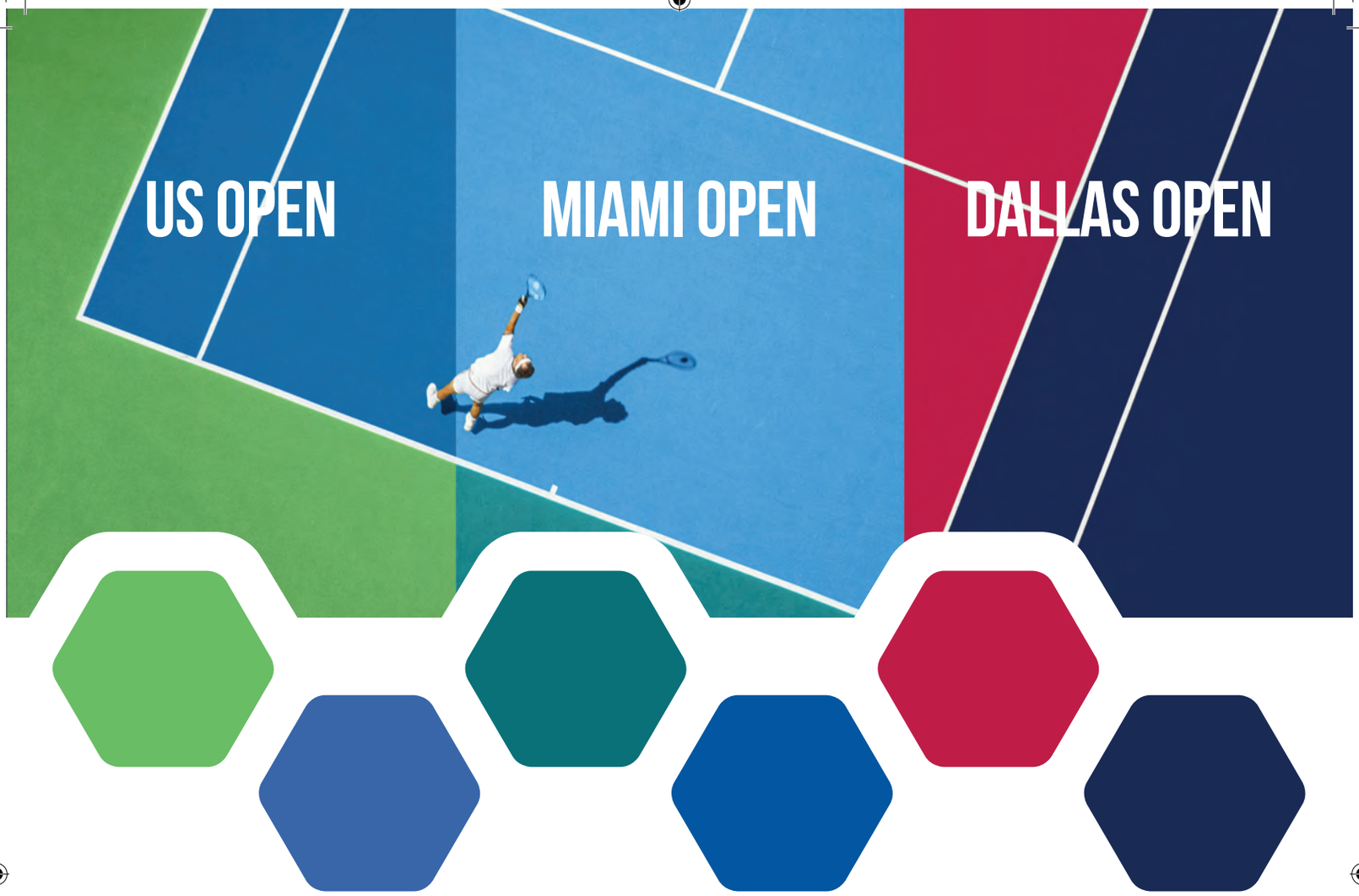
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FOR MORE INFORMATION:

www.laykold.com
www.advpolytech.com
info@laykold.com
724.452.1330
109 Conica Lane, Evans City PA 16033 USA

Laykold manufactured in the USA by

APT



TOURNAMENT COLOR CHART

As seen at the US Open, Miami Open and Dallas Open.

GIVE YOUR COURTS THE LOOK OF THE WORLD'S BIGGEST TOURNAMENTS.

Laykold is trusted and chosen by the US Open, Miami Open and the Dallas Open.

Whether it's the prestige of the US Open, the blue sizzle of the Miami Open or the sophistication of the Dallas Open, now you can get the same quality colors for your club, school or residence, exclusively through Laykold.

Laykold®

CONTACT US:
+1 888-384-2460 WWW.LAYKOLD.COM

Laykold offers more colors than any other court surface
GET INSPIRED TODAY!

Disclaimer: Please note: Colors shown are as accurate as possible. Slight variations may occur due to job site conditions, mixing proportions and installation methods

US OPEN **GREEN**	US OPEN **BLUE**	OASIS **BLUE**	BISCAYNE **BLUE**	SCARLET **RED**	MIDNIGHT **BLUE**

NuSurf

General Description

Laykold NuSurf is a premium quality, highly flexible, 100% acrylic emulsion formulated and supplied as a concentrate. When batch mixed with silica sand and water NuSurf is an excellent acrylic filler coat with 800% greater elongation properties than standard acrylic resurfacer products. NuSurf can be used over new or existing asphalt. NuSurf is environmentally friendly and does not contain any Asbestos, Lead, or Mercury.

Basic Uses: NuSurf is designed for smoothing new asphalt and previously coated asphalt substrates. NuSurf can also be used as an elastomeric crack filler.

Features and Benefits

- Environmentally friendly
- High quality concentrate
- A highly flexible acrylic resurfacer
- Available as black or neutral
- Can be used as elastomeric crack filler
- Does not contain Asbestos, Lead or Mercury

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

Laykold NuSurf should be kept dry and cool. Storage temperature should be between 4°C (40°F) and 32°C (90°F). Laykold NuSurf has a shelf life of 1 year.

Packaging: 55-gallon drum (220 kgs/drum) or 30 gallon drum (120 kgs/drum).

Coverage

Approximate coverage rate for Laykold NuSurf is 0.05-0.07 gals/yd² (0.29-0.40kg/m²) (129-180ft²/gal) based on NuSurf batch mixture and the substrates surface texture.

Installation Guidelines

Existing surface shall be dry and clean, free from all dirt, dust, and foreign debris. New asphalt should be allowed a minimum of 14-day curing period before applying any coatings. Prior to application of any coatings, the entire area should be flooded with water and checked for depressions of 1/16" or greater. Depressions shall be leveled using Laykold Deep Patch (depression filler mix). Refer to individual technical data sheets for mixture and application details. NuSurf may also be used to fill very minor depressions (1/8" or less) by mixing 1 part of NuSurf to 1 part #60-#80 mesh silica sand. Only add a small amount of water, if necessary, to achieve workability. When adding water and/or silica sand, the NuSurf must then be mixed thoroughly until the material is consistent. The amount and size of sand may be varied to achieve different textures and filling properties.

The mixed product shall be applied to the surface using a soft, rubber squeegee. The finished application shall have a uniform appearance and be free of ridges and tool marks. If more than one application is necessary, the 2nd coat should be pulled at a 90°angle to the 1st.

NuSurf batch mixture for filler coat applications

55 gallons of NuSurf
400-500 lbs. of #60 - #80 mesh silica sand
25 to 35 gallons of potable water

NuSurf batch mixture as crack filler

Equal parts NuSurf and silica sand

Limitations

- Minimum air and surface temperatures in a 24-hour period: 50°F (10°C).
- Maximum surface temperature 130° (54°C).
- Do not apply when rain is imminent.
- Do not allow to freeze.
- Do not over dilute with water.
- Drying time of 2-4 hours depending on weather conditions.
- Laykold surfacing systems/products **WILL NOT** prevent pavement cracks from occurring or reoccurring.

Technical Data

Results based on temperature of 25°C (77°F) and 50% Humidity	
Viscosity	35,000-45,000 cPs
Tensile Strength	Avg. 0.94 N/mm^2
Elongation	24.7%

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications. Consult the Safety Data Sheet (SDS) for more details. For complete and latest warranty and product information, please visit advpolytech.com

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US OPEN

APT ADVANCED POLYMER TECHNOLOGY

TEXTURED LINE PAINT

Certified Quality

THE WORLD'S MOST TRUSTED COURT SURFACE

LAYKOLD WHITE



LAYKOLD YELLOW



LAYKOLD BLUE



LAYKOLD RED



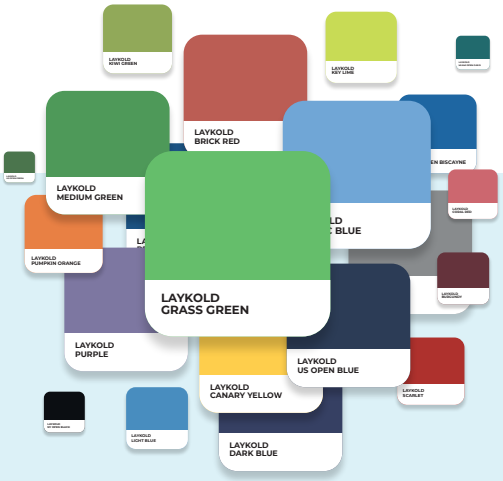
LAYKOLD BLACK

Laykold TECH HUB

For color combinations and system information visit the Laykold Technical Hub.
www.sportgroup-techhub.com/laykold

Colors are as accurate as possible. Slight variations may occur due to job site conditions, mixing proportions and installation methods.

CUSTOM COLORS
are available



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Custom colors available	■	■	■	■	■	■	■	■	■	■
UV stable colors	■	■	■	■	■	■	■	■	■	■
Slip resistant, injury reduction	■	■	■	■	■	■	■	■	■	■
Long lasting, recoatable	■	■	■	■	■	■	■	■	■	■
Glare resistant	■	■	■	■	■	■	■	■	■	■
Environmentally friendly, no heavy metals or solvents	■	■	■	■	■	■	■	■	■	■
Specifically designed for demanding sports traffic		■								
Cushioned system				■	■	■	■	■	■	■
1 year warranty	■	■	■	■	■	■	■	■	■	■
2 year warranty		■	■	■	■	■	■	■	■	■
5 year warranty			■		■	■	■	■	■	■
Designed for existing substrates with cracks or imperfections					■	■	■	■	■	■
Excellent force reduction *Cushion level 10%+*				■	■	■	■	■	■	■
Outstanding force reduction *Cushion level 14%+*					■	■	■	■	■	■
Premium force reduction *Cushion level 20%+*							■	■	■	
Superior force reduction *Cushion level 60%+*								■	■	
Features APT's Green Technology						■				■
Structurally reinforced playing surface							■	■	■	
Uses a wood subfloor system for superior shock absorption								■	■	
Versatile and can be used for retrofits, new installations, overlays								■	■	
Use for events and as a temporary surface system									■	

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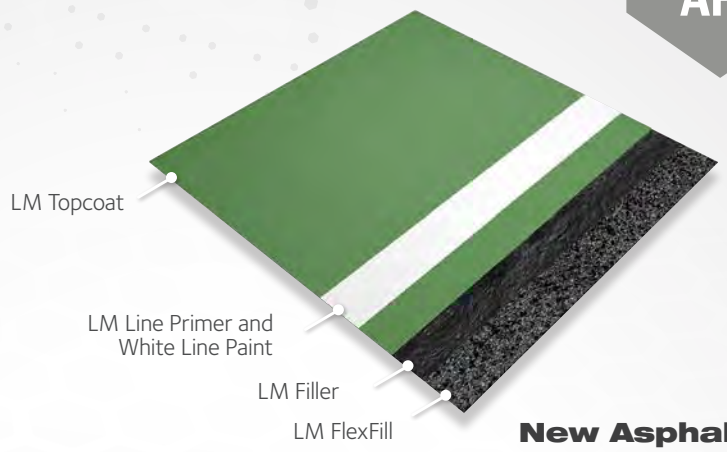
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APT

Laykold® MASTERS

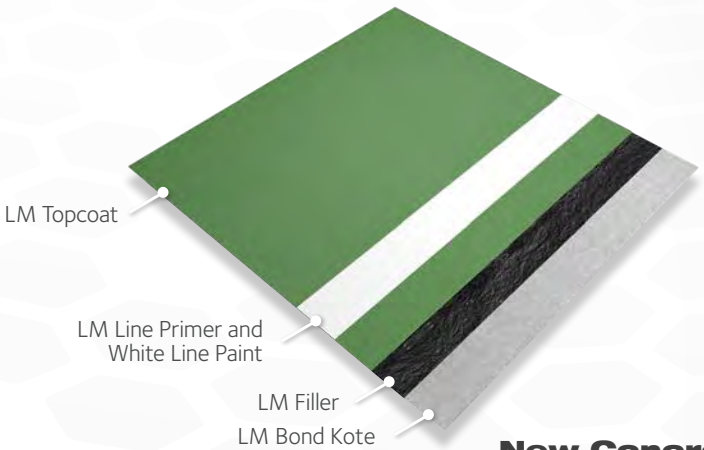
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New Asphalt

MASTERS **COLOR**

Our revolutionary Laykold® Masters Color system is a high performance, all-weather, acrylic court surface, using a proprietary blend of factory-texture to ensure exceptional playability and enduring style.

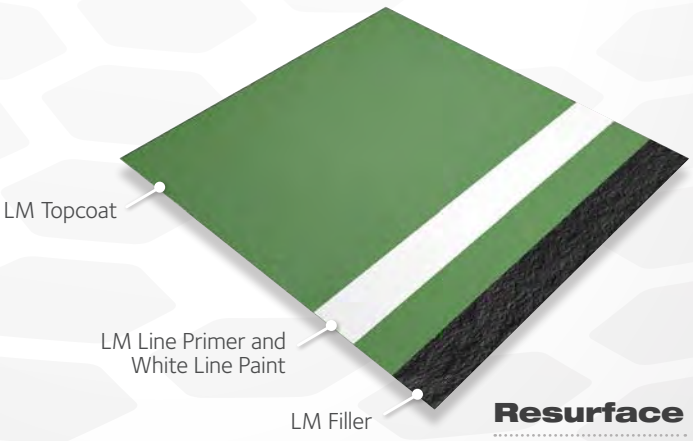


Used on concrete substrates only

New Concrete

Highlights

- 5-year warranty
- Superior abrasion and UV resistance
- Multisport applications
- Manufactured by APT in an ISO 9001 Quality Assured and ISO 14001 Environmentally Conscious facility
- Custom colors available



Resurface

SPORTS AND LEISURE
SYNTHETIC SURFACE SPECIALISTS

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POWERED BY APT

The **Laykold®** family of systems are acrylic sports surfaces that can be customized to achieve the desired performance, playability and appearance, making it an incredibly cost-effective way to breathe new life into asphalt or concrete surfaces. Low maintenance and resurfacing costs can extend a court's playing life or transform it completely.

Laykold® is the official surface of the Miami Open and has been since 1984. It is a popular choice for community-funded facilities as they find new ways to increase utilization and physical activity. **Laykold®** is used in premier tennis facilities across the world and is also widely used for pickleball, basketball, soccer, game courts and in-line skating.

Laykold® is manufactured in our ISO9001 and 14001 certified factory in Harmony PA. APT Corp is a global leader in the development and manufacture of innovative, high performance and environmentally friendly sports and recreational surfacing systems. The complete range includes synthetic grass for every application as well as polyurethane-based surfaces for running tracks, indoor gymnasium flooring and children's playgrounds.

PRODUCT FEATURES

	HARDCOURT			CUSHION COURT					
	COLORCOAT, COLORFLEX	ADVANTAGE, PICKLEBALL PRO	MASTERS COLOR	CUSHION PLUS, PICKLEBALL PROPLUS	MASTERS 5	MASTERS GEL	MASTERS 8, FLOAT, INDOOR	MASTERS MONTREAL	MASTERS ROME
Custom colors available	■	■	■	■	■	■	■	■	■
UV stable colors	■	■	■	■	■	■	■	■	■
Slip resistant, injury reduction	■	■	■	■	■	■	■	■	■
Long lasting, recoatable	■	■	■	■	■	■	■	■	■
Glare resistant	■	■	■	■	■	■	■	■	■
Environmentally friendly, no heavy metals or solvents	■	■	■	■	■	■	■	■	■
Specifically designed for demanding sports traffic		■							
Cushioned system				■	■	■	■	■	■
1 Year warranty	■	■	■	■	■	■	■	■	■
2 Year warranty		■	■	■	■	■	■	■	■
5 Year warranty			■		■	■	■	■	■
Designed for existing substrates with cracks or imperfections					■	■	■	■	■
Excellent force reduction *Cushion level 10%+*				■	■	■	■	■	■
Outstanding force reduction *Cushion level 14%+*					■	■	■	■	■
Premium force reduction *Cushion level 20%+*							■	■	■
Superior force reduction *Cushion level 60%+*								■	■
Features APT's Green Technology						■			
Structurally reinforced playing surface							■	■	■
Uses a wood subfloor system for superior shock absorption								■	■
Versatile and can be used for retrofits, new installations, overlays								■	■
Use for events and as a temporary surface system									■

Official Surface of the U.S. Soccer Foundation - Safe Places To Play

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MASTERS
GEL + GEL PLUS

The revolutionary cushion court systems

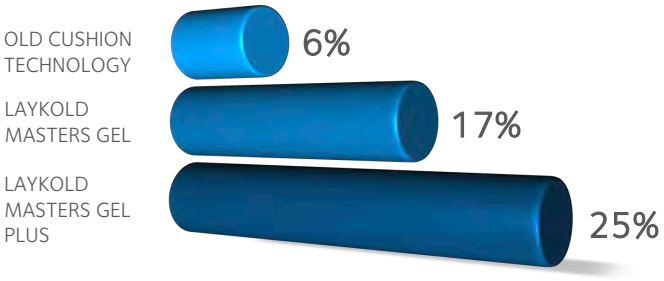


Laykold Basecoat (New Asphalt Only) .1
LM PU Primer or Qualipur 182 (Concrete Only) .2
LM Gel .3
LM Wearcoat .4
LM Basecoat .5
LM Filler .6
LM Top Coat .7
LM Line Primer and White Line Paint .8

SPORTS AND LEISURE
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Laykold Masters Gel and Gel Plus are revolutionary, technologically advanced, seamless cushioned court systems manufactured utilizing 60%+ renewable resources. The all-weather court surfaces offer a wide variety of benefits to all ages and ability. From recreational to professional athlete, **Laykold Masters Gel** provides 17%+ force reduction and **Gel Plus** provides 25%+ enhancing player performance by reducing joint impact and body fatigue. The chemistry is complex but the result is simple.



For athletes to remain healthy while achieving peak performance, their bodies need three key factors from a surface.

First injury prevention, **Laykold Masters Gel / Gel Plus** provides a high level of impact protection (17%+ / 25%+) from the repetitive rigors of training and competition...

FORCE REDUCTION = INJURY PREVENTION

Secondly, **Laykold Masters Gel / Gel Plus** are mixed elastic which is far superior to point elastic systems. Mixed elastic surfaces minimize the depth of "foot depression" which protects an athlete's knees and ankles from injury during high velocity, lateral changes of direction.

The third and most impressive characteristic of the **Laykold Masters Gel / Gel Plus** systems is its **ENERGY RETURNING** property. In simple terms, the **Laykold Masters Gel / Gel Plus** systems don't just absorb the force an athlete produces during competition, they also return that energy to the athlete reducing fatigue...

FORCE REDUCTION = ENERGY RETURN

POWERED BY APT

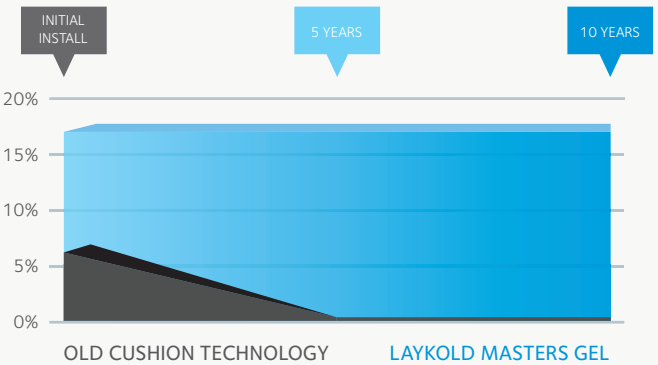


TRUE FENCE-TO-FENCE CUSHIONING

Laykold Masters Gel / Gel Plus offers consistent, reliable footing with true fence-to-fence cushioning, a characteristic that had since been unheard of in the cushioned tennis and sport court market. Whether you are playing at the net or playing at the baseline, you can be sure that both ball speed and foothold will remain the same.

What good is cushioning if it only lasts one season?

Under the old cushion technology, sport courts lose cushioning as they age and will be down to a 0% force reduction, basically a hard court, roughly 3 years after installation. **Laykold Masters Gel / Gel Plus** ground-breaking technology puts an end to that! **Laykold Masters Gel / Gel Plus** cushion courts will retain 95% - 98% of their initial force reduction after 10 years!



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Laykold Pickleball Pro System

INSTALLATION GUIDE

Advanced Polymer Technology (APT) has prepared this installation guide to aid in the application of the Laykold Pickleball Pro surfacing system. Any references to consumptions are approximate due to variations in site conditions and application techniques. Before starting any work, the applicator should thoroughly review this installation guide and all system component technical data sheets.

MIXING OF MATERIALS

Laykold Pickleball Pro system components are supplied in concentrated form. Each component must be mixed appropriately prior to installation. Mixing can be performed in a low-speed mixing tank or in a clean 55-gallon drum using a ½" (minimum) heavy-duty drill (7 amps minimum) fitted with a stainless-steel mixing blade/shaft (shaft 1/2" x 36" long; blade 8 ½" x 5"). Materials should be mixed at a low speed (400 - 600 rpm) taking care not to introduce air into the product. Mix until material is consistent in color and texture. The mixing ratio for each product is listed below:

Laykold Pickleball Pro Component	**Maximum Dilution** Material to Water	**Silica Sand Requirements** mesh size/#'s per gallon of concentrated material
Epoxy Moisture Mitigation Primer	None	None
LM Bond-Kote	1 part to 5 parts	None
Laykold Deep Patch	None	See Technical Data Sheet
Laykold Acrylic Resurfacer*	1 part to 0.7 part	60-80 / 10-17 #'s per gal.
Advantage Laykold**	4 parts to 1 part*	Do not add sand
Laykold ColorCoat Concentrate – Finish Mix	1 part to 1 part	Do not add sand

- Laykold NuSurf may be substituted in lieu of Acrylic Resurfacer and is recommended for use over new asphalt pavements, cushioned systems and slip sheet crack repair systems. See NuSurf technical data sheet for mixing details.

- Advantage Laykold may be diluted up to 3 parts to 1 parts water in hot temperatures.

POT LIFE

The pot life is set at a temperature of 68°F. Pot life will vary with temperature.

Advantage Laykold Component	Pot Life
Epoxy Moisture Mitigation Primer	See Manufacture's Guidelines

All other Advantage components are water-based acrylics. Excess material may be resealed and stored in a cool dry environment for future use. Shelf life is approximately 1 year.

SURFACE PREPARATION

A. New Concrete or Existing Concrete Substrates

1. Concrete must be shot blasted, hydro blasted, and/or bush mill hammered to a CSP3 profile if Laykold Epoxy VTB is required. When using LM Bond-Kote as an adhesion promoter, concrete must have a minimum of a medium broom finish and acid etched if using LM-Bond-Kote as an adhesion promoter.

2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼" below a 10-foot straight edge when measured in any random path.

3. New concrete shall be cured for a minimum of 30 days before proceeding.

4. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the Laykold VTB Primer application. All cracking and construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation. If using LM Bond-Kote, depression should be leveled before LM Bond-Kote application.

5. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

6. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must

have a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.

2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

C. Previously Coated Asphalt Substrates

1. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

2. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues

PRIMER (Concrete Only)

Primer (for concrete substrates only): When installing the Laykold Pickleball Pro System over concrete, LM Bond-Kote must be applied as the first layer of the system. If applying a breathable system or RH tests less than 75%, LM Bond-Kote can be applied. LM Bond-Kote is mixed by diluting 1 part LM Bond-Kote with 5 parts portable water and mixing using a low-speed jiffy mixer (400 to 600 rpm) until uniform (3-5 minutes). Spread the mixed primer on the substrate using a 36" 55 durometer squeegee to achieve a total coverage of approximately 0.02 gal/yd^2 (0.09 kg/m^2 – 450ft^2/gal). Allow to fully dry before proceeding.

If the concrete substrate tests with an RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) or greater than 3 lbs/1000 sqf/24 hours, more cure time is required, or an epoxy moisture mitigation can be used. Manufacture's guidelines should be followed when applying the epoxy mitigation primer.

Note: Only use material that naturally flows out of the pail. Do not scrape, bang, or place pail upside down to force additional materials out of the pail.

FILLER COAT(S) (1-2 coats as needed)

Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat.

Note: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold

NuSurf is highly recommended for use on new asphalt pavements and/or older pavements that have experienced hairline surface cracking.

TEXTURED COLOR COATS (2-3 coats)

Apply two coats of Advantage Laykold factory textured color using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons (170 kg) of Advantage Laykold and 6.5-8.5 gallons (25 to 32 kg) of potable water. The application rate shall be 0.06-0.07 gal/yd^2 (0.41-0.47 kg/m^2 - 130-150 ft^2/gal) of undiluted Advantage Laykold per coat.

Optional Finish Coat – Smoother Surface Texture

Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

GAME LINES (1-2 coats as needed)

A. Wait a minimum of 24 hours after final color coat before applying line paint.
B. All lines are to be applied by painting between masking tape with a paintbrush or roller according to USA Pickleball. and ASBA. specifications.
C. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.
D. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.
E. Remove masking tape immediately after lines are dry.
F. Allow lines to dry a minimum of 24 hours before allowing play on court.

COVERAGES

Actual coverage rates are dependent upon a variety of factors relative to the field application. The installer must assess the conditions prior to ordering material. Allowances must be made for waste in mixing, pouring, and field conditions.

LIMITATIONS

A. Asphalt substrates shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, an epoxy moisture mitigation primer can be applied to 5-day old (minimum) concrete substrates according to manufacturer guidelines.

B. If an epoxy moisture mitigation primer is required, concrete substrate must be shot blasted, or hydro blasted to a CSP3 profile. **Minimum requirements are a broom finish and acid etching, if using LM Bond-Kote as an adhesion promoter but shot blasting or hydro blasting is preferred.**

C. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt, and other foreign matter before any coatings are applied.

D. Water used in all mixtures shall be fresh and potable.

E. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

F. Do not apply coatings to a cold surface. Surface and air temperature must be a minimum of 50ºF (10ºC) and rising. A minimum temperature of 50°F must be maintained during the entire installation process to include 24-hours before and after the installation.

G. Shaded areas will be cooler with slower curing times. Special precautions should be taken to ensure all coatings cure sufficiently prior to application of additional coatings.

H. Do not apply coatings if extremely high humidity prevents drying.

I. No coatings are to be applied if surface temperatures exceed 130°F (54°C).

J. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

K. Color(s) of acrylic color coating system is to be selected by owner from manufacturer's product color card(s).

L. If all the above conditions are met, surfacing materials shall have a (2) two-year limited warranty as supplied by the manufacturer.

Acrylic, all-weather pickleball systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather pickleball systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

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Laykold Pickleball Pro Plus System

INSTALLATION GUIDE

Advanced Polymer Technology (APT) has prepared this installation guide to aid in the application of the Laykold Pickleball Pro Plus surfacing system. Any references to consumptions are approximate due to variations in site conditions and application techniques. Before starting any work, the applicator should thoroughly review this installation guide and all system component technical data sheets.

MIXING OF MATERIALS

Laykold Pickleball Pro Plus system components are supplied in concentrated form. Each component must be mixed appropriately prior to installation. Mixing can be performed in a low-speed mixing tank or in a clean 55-gallon drum using a ½" (minimum) heavy-duty drill (7 amps minimum) fitted with a stainless-steel mixing blade/shaft (shaft 1/2" x 36" long; blade 8 ½" x 5"). Materials should be mixed at a low speed (400 - 600 rpm) taking care not to introduce air into the product. Mix until material is consistent in color and texture. The mixing ratio for each product is listed below:

Laykold Pickleball Pro Plus Component	**Maximum Dilution** Material to Water	**Silica Sand Requirements** mesh size/#'s per gallon of concentrated material
Epoxy Moisture Mitigation Primer	None	None
LM Bond-Kote	1 part to 5 parts	None
Laykold Deep Patch	None	See Technical Data Sheet
Laykold Acrylic Resurfacer*	1 part to 0.7 part	60-80 / 10-17 #'s per gal.
Laykold Cushion Plus Granular	2 parts to 1 part	None
Laykold Cushion Plus Powder	2 parts to 1 part	None
Advantage Laykold**	4 parts to 1 part*	None
Laykold ColorCoat Concentrate – Finish Mix	1 part to 1 part	None

- Laykold NuSurf may be substituted in lieu of Acrylic Resurfacer and is recommended for use over new asphalt pavements, cushioned systems and slip sheet crack repair systems. See NuSurf technical data sheet for mixing details.

- Advantage Laykold may be diluted up to 3 parts to 1 parts water in hot temperatures.

POT LIFE

The pot life is set at a temperature of 68°F. Pot life will vary with temperature.

Advantage Laykold Component	Pot Life
Epoxy Moisture Mitigation Primer	See Manufacture's Guidelines

All other Advantage components are water-based acrylics. Excess material may be resealed and stored in a cool dry environment for future use. Shelf life is approximately 1 year.

SURFACE PREPARATION

A. New Concrete or Existing Concrete Substrates

a. Concrete must be shot blasted, hydro blasted, and/or bush mill hammered to a CSP3 profile if Laykold Epoxy VTB is required. When using LM Bond-Kote as an adhesion promoter, concrete must have a minimum of a medium broom finish and acid etched if using LM-Bond-Kote as an adhesion promoter.

2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼" below a 10-foot straight edge when measured in any random path.

3. New concrete shall be cured for a minimum of 30 days before proceeding.

4. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the Laykold VTB Primer application. All cracking and construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation. If using LM Bond-Kote, depression should be leveled before LM Bond-Kote application.

5. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

6. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.

2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

C. Previously Coated Asphalt Substrates

1. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 30 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

b. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues

PRIMER (Concrete Only)

Primer (for concrete substrates only): When installing the Laykold Pickleball Pro Plus System over concrete, LM Bond-Kote must be applied as the first layer of the system. If applying a breathable system or RH tests less than 75%, LM Bond-Kote can be applied. LM Bond-Kote is mixed by diluting 1 part LM Bond-Kote with 5 parts portable water and mixing using a low-speed jiffy mixer (400 to 600 rpm) until uniform (3-5 minutes). Spread the mixed primer on the substrate using a 36" 55 durometer squeegee to achieve a total coverage of approximately 0.02 gal/yd^2 (0.09 kg/m^2 – 450ft^2/gal). Allow to fully dry before proceeding.

If the concrete substrate tests with an RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) or greater than 3 lbs/1000 sqf/24 hours, more cure time is required, or an epoxy moisture mitigation can be used. Manufacture's guidelines should be followed when applying the epoxy mitigation primer.

Note: Only use material that naturally flows out of the pail. Do not scrape, bang, or place pail upside down to force additional materials out of the pail.

FILLER COAT(S) (1-2 coats as needed)

Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat.

Note: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold NuSurf is highly recommended for use on new asphalt pavements and/or older pavements that have experienced hairline surface cracking.

CUSHION COATS (5-7 coats as specified)

Laykold Cushion Plus: Apply 2 coats of Laykold Cushion Plus Granule Rubber that is mixed 55 gallons (240 kg) of granule cushion to 22-27 gallons (83-90 kg) of potable water. The consumption rate for the granule cushion coat is 0.20 gal/yd^2 (.91 kg/m^2 - 45 ft^2/gal). Then apply 3 coats of Laykold Cushion Plus Powder Rubber that is mixed 55 gallons (235 kg) of powder cushion to 22 gallons (83 kg) of potable water. The average application rate for the Cushion Plus Powder coat shall equal 0.12 gal/yd^2 (0.61 kg/m^2 - 75 ft^2/gal) per coat. Apply cushion coats using a soft rubber, or notched squeegee. Each application shall be applied perpendicular (90 degrees) to the previous coat. Please note that the first application of Cushion Plus Powder will use the greatest amount of material as it begins to fill the rough texture created by the larger base rubber coats. The 2nd and 3rd applications of the small filler rubber will use less material with each coat for an overall average consumption rate of 0.12 gal/yd^2 (0.61 kg/m^2 - 75 ft^2/gal) per coat. Allow each coat to dry completely (minimum of 5 hours) before proceeding with the next coat of Cushion-Plus or water vapor may become trapped between the cushion layers causing peeling and blisters. When more than the standard Cushion Plus system (as detailed above) is desired, the cushion layers are broken down as follows:

a. Cushion Plus 6 (layers) – 3 coats granule, 3 coats powder
b. Cushion Plus 7 (layers) – 4 coats granule, 3 coats powder

NOTE: More than 7 cushion layers is not recommended.

FILLER COAT(S) (1 coat)

Filler Coat: Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat.

NOTE: Sand cured system with floor sander and 16-24 grit paper to remove rubber nubs.

TEXTURED COLOR COATS (2-3 coats)

Apply two coats of Advantage Laykold factory textured color using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons (170 kg) of Advantage Laykold and 6.5-8.5 gallons (25 to 32 kg) of potable water. The application rate shall be 0.06-0.07 gal/yd^2 (0.41-0.47 kg/m^2 - 130-150 ft^2/gal) of undiluted Advantage Laykold per coat.

Optional Finish Coat – Smoother Surface Texture

Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

GAME LINES (1-2 coats as needed)

A. Wait a minimum of 24 hours after final color coat before applying line paint.
B. All lines are to be applied by painting between masking tape with a paintbrush or roller according to USA Pickleball. and ASBA. specifications.
C. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1-hour.
D. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.
E. Remove masking tape immediately after lines are dry.
F. Allow lines to dry a minimum of 24 hours before allowing play on court.

COVERAGES

Actual coverage rates are dependent upon a variety of factors relative to the field application. The installer must assess the conditions prior to ordering material. Allowances must be made for waste in mixing, pouring, and field conditions.

LIMITATIONS

A. Asphalt substrates shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, an epoxy moisture mitigation primer can be applied to 5-day old (minimum) concrete substrates according to manufacturer guidelines.

B. If an epoxy moisture mitigation primer is required, concrete substrate must be shot blasted, or hydro blasted to a CSP3 profile. **Minimum requirements are a broom finish and acid etching, if using LM Bond-Kote as an adhesion promoter but shot blasting or hydro blasting is preferred.**

C. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt, and other foreign matter before any coatings are applied.

D. Water used in all mixtures shall be fresh and potable.

E. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

F. Do not apply coatings to a cold surface. Surface and air temperature must be a minimum of 50ºF (10ºC) and rising. A minimum temperature of 50°F must be maintained during the entire installation process to include 24-hours before and after the installation.

G. Shaded areas will be cooler with slower curing times. Special precautions should be taken to ensure all coatings cure sufficiently prior to application of additional coatings.

H. Do not apply coatings if extremely high humidity prevents drying.

I. No coatings are to be applied if surface temperatures exceed 130°F (54°C).

J. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

K. Color(s) of acrylic color coating system is to be selected by owner from manufacturer's product color card(s).

L. If all the above conditions are met, surfacing materials shall have a (2) two-year limited warranty as supplied by the manufacturer.

Acrylic, all-weather pickleball systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather pickleball systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

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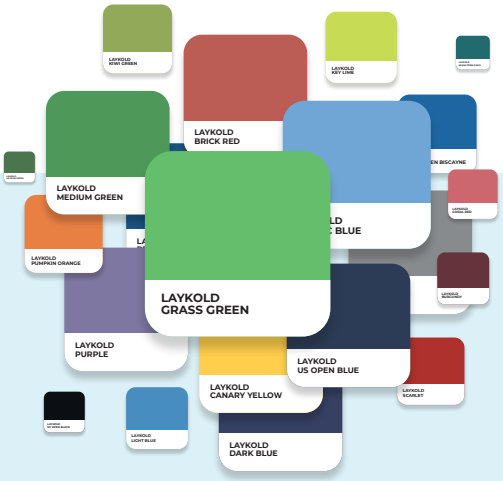
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MOCHA

TECH HUB

For color combinations and system information visit the Laykold Technical Hub.
www.sportgroup-techhub.com/laykold

Colors are as accurate as possible. Slight variations may occur due to job site conditions, mixing proportions and installation methods.

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Product features

	HARDCOURT			CUSHION COURT						
	COLORCOAT, COLORFLEX	ADVANTAGE, PICKLEBALL PRO	MASTERS COLOR	CUSHION PLUS, PICKLEBALL PROPLUS	MASTERS 5, FLOAT PICKLEBALL	MASTERS GEL	MASTERS 8, FLOAT, INDOOR	MASTERS MONTREAL	MASTERS ROME	MASTERS PICKLEBALL GEL, GEL PLUS
Custom colors available	■	■	■	■	■	■	■	■	■	■
UV stable colors	■	■	■	■	■	■	■	■	■	■
Slip resistant, injury reduction	■	■	■	■	■	■	■	■	■	■
Long lasting, recoatable	■	■	■	■	■	■	■	■	■	■
Glare resistant	■	■	■	■	■	■	■	■	■	■
Environmentally friendly, no heavy metals or solvents	■	■	■	■	■	■	■	■	■	■
Specifically designed for demanding sports traffic		■								
Cushioned system				■	■	■	■	■	■	■
1 year warranty	■	■	■	■	■	■	■	■	■	■
2 year warranty		■	■	■	■	■	■	■	■	■
5 year warranty			■		■	■	■	■	■	■
Designed for existing substrates with cracks or imperfections					■	■	■	■	■	■
Excellent force reduction *Cushion level 10%+*				■	■	■	■	■	■	■
Outstanding force reduction *Cushion level 14%+*					■	■	■	■	■	■
Premium force reduction *Cushion level 20%+*							■	■	■	
Superior force reduction *Cushion level 60%+*								■	■	
Features APT's Green Technology						■				■
Structurally reinforced playing surface							■	■	■	
Uses a wood subfloor system for superior shock absorption								■	■	
Versatile and can be used for retrofits, new installations, overlays								■	■	
Use for events and as a temporary surface system									■	

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FOR MORE INFORMATION:

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www.advpolytech.com
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MASTERS 8, FLOAT, and INDOOR Systems Specification

PART 1 – GENERAL

1.1 DESCRIPTION

A. Scope: This guide specification covers the installation of the Laykold Masters 8, FLOAT, and INDOOR systems. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. The Laykold Masters 8, Float, and Indoor systems are resilient, polyurethane/rubber/acrylic composite court systems utilizing a prefabricated rubber shock pad with a highly flexible acrylic color finish. The systems increase player comfort by significantly reducing shock to the back and lower extremities. The Laykold Masters 8, Float, and Indoor systems should be applied only to properly prepared concrete or asphalt substrates. This cushioned tennis and athletic surface is comprised of LM Flexfill (asphalt only), LM Adhesive, LM 7mm Rubber Shock Pad, Laykold Crack Filler, LM Wearcoat, LM Bond-Kote, LM Filler, and the LM Topcoat.

B. Court Construction: Refer to the American Sports Builders Association (ASBA) manual Tennis Courts: A Construction & Maintenance Manual for court construction details. This publication may be obtained by calling the ASBA at 443-640-1042 or visiting www.sportsbuilders.org.

1.2 QUALITY ASSURANCE

A. All tennis court surfacing materials shall be Laykold Masters 8, Float, and Indoor Systems as supplied by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001 and ISO 14001 certified manufacturer. APT may be contacted via telephone 888-266-4221, fax 724-452-1703, or web sites www.laykold.com and www.advpolytech.com.

B. All work shall be done in accordance with American Sports Builders Association (ASBA) guidelines.

C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.3 SUBMITTALS

A. Submit one set of Advanced Polymer Technology “Laykold Masters 8, Float, and Indoor Systems Specifications”.

B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.

C. Submit current Safety Data Sheets (SDS).

D. Submit current ISO Quality Management System Certification certificate.

1.4 WORKING CONDITIONS & LIMITATIONS

A. Asphalt shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings.

B. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt and other foreign matter before any coatings are applied.

C. Water used in all mixtures shall be fresh and potable.

D. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

E. Do not apply coatings to a cold surface. Surface and air temperatures must be at least 50ºF (10ºC) and rising.

F. Do not apply coatings if extremely high humidity prevents drying.

G. No coatings are to be applied if surface temperatures exceed 130°F (54° C).

H. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

I. Color(s) of acrylic color coating system is to be selected by owner from manufacturer's product color card.

J. If all the above conditions are met, surfacing materials shall have a Five-Year limited warranty as supplied by the manufacturer.

1.5 WARRANTY

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for five (5) years. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material furnished by APT in connection with the project. No salesman or other employee or agent of APT is authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or implied, statutory or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

PART 2 – PRODUCTS

2.1 LAYKOLD MASTERS 8, FLOAT, AND INDOOR SYSTEM COMPONENTS

A. All components of Laykold Masters 8, Float, and Indoor systems shall be supplied by Advanced Polymer Technology, an ISO 9001 and 14001 certified manufacturer. Masters 8, Float, and Indoor system components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.

B. LM FlexFill: a highly flexible acrylic emulsion used for asphalt substrate surface preparation. Used on new asphalt substrates only.

C. LM Adhesive: a two-component polyurethane used to adhere the prefabricated rubber mat to the substrate.

D. Laykold Crack Filler: a rubber fortified two component polyurethane used to seal the perimeter of the prefabricated rubber mat and adhere the joints between rolls.

E. LM 7mm Rubber Shock Pad: a 7mm Rubber Shock Pad with 5% or greater recycled tennis ball material and a laminated fiberglass scrim used as a shock pad.

F. LM Wearcoat: a resilient, two-component polyurethane coating used to seal the shock pad and protect it from the damage.

G. LM Bond-Kote: a one-component water-based adhesion promoter between polyurethanes and acrylic coatings designed to waterproof the system.

H. LM Filler: A flexible, pigmented base color coat emulsion for use with Laykold Masters 8, Float, and Indoor Systems.

I. LM Topcoat: a flexible, pigmented, wear and weather resistant color coat emulsion for use with Laykold Masters 8, Float, and Indoor Systems.

J. Laykold Line Prime: a clear drying acrylic emulsion line primer.

K. Laykold Textured White Line Paint: a factory textured, wear-resistant acrylic line marking paint.

PART 3 – EXECUTION

3.1 INSPECTION

A. Inspect concrete or asphalt substrate for dryness. Report any discrepancies to general contractor.

B. Surface of substrate shall be cleaned by general contractor as required.

C. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 Preparation

A. New Concrete or Existing Concrete Substrates

1. Concrete must be shot blasted, hydro blasted, and/or bush mill hammered to a CSP3 profile.

2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼" inch below a 10-foot straight edge when measured by any random path.

3. New concrete shall be cured for a minimum of 30 days before proceeding.

4. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the Laykold Epoxy VTB Primer application. All cracking And construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation.

5. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

6. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.

2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.

3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

C. Previously Coated Asphalt Substrates

1. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be

leveled with the approved product. All cracking should be filled with the correct sealant.

Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

3.3 INSTALLATION

A. LM Flexfill is only required for New Asphalt. Apply the Laykold Flexfill using a 36" wide 55 Durometer flexible rubber squeegee. Thoroughly mix the Laykold Flexfill until the material is consistent in color and texture. The application rate shall be 0.05-07 gal/yd^2 or 130-180 ft^2/gal of undiluted Laykold, per coat. Each coat should be completely dry before applying subsequent coats.

B. Laykold Epoxy VTB (Qualipur 182) must be used when installing Laykold Masters systems over new concrete substrates where RH value exceeds 75% according to ASTM F 2170. Laykold Epoxy VTB (Qualipur 182) is mixed by pouring the "B" component into the "A" component and mixing using a low-speed jiffy mixer (400 to 600 rpm) for 2 minutes. Scrape down the sides of the bucket and mix for an additional minute. Do not incorporate air when mixing. Spread Laykold Epoxy VTB (Qualipur 182) on the substrate using a notched trowel and high-quality, medium nap roller to achieve a total coverage of approximately 0.10 gal/yd^2 (0.50 kg/m^2 - 90 ft^2/gal). The working time for Laykold Epoxy Primer (Qualipur 182) is approximately 40 - 50 minutes and is reduced in high temperatures. Allow 8 to 12 hours drying time before proceeding with Laykold Masters 8, Float, and Indoor Systems.

C. Patching**:** Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 20 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/8 inch shall be outlined and patched.

1. Surface Leveling: Birdbaths shall be leveled using Laykold Acrylic Deep Patch court patch binder slurry. Prime area with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand and Type 1 Portland Cement. Mix as per manufacturer directions.

2. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions. Refer to Laykold Deep Patch technical data sheet for additional mixing details and application instructions for filling various sized cracks.

3. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.

D. Install Laykold Masters GEL system according to guidelines provided by Advanced Polymer Technology Corp., Harmony, PA.

3.4 PROTECTION

A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.

B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.

C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for a period of one week after completion.

D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.

E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

3.5 MAINTENANCE

A. Dirt Contamination

1. Broom, wash or blow dirt off court on a regular basis.

2. Annual pressure washing of court surface is recommended.

3. Most dirt and stains can be removed with a neutral pH cleaner used in proper dilution. Pre-test cleaner on small area in corner of court.

B. Proper maintenance procedures and housekeeping practices should be performed on a timely as needed basis.

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

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1. General Description

Qualicaulk is an adhesive/sealant with high initial tack.

Uses: Qualicaulk is designed for sealing and bonding in building and construction industry, structural elastic bonding, and elastic bonding of rubber mats along with use as a crack filler/sealer for asphalt and concrete substrates and a wide variety of sport surfacing systems.

2. Safety Guidelines

KEEP OUT OF REACH OF CHILDREN. Avoid skin and eye contact. On contact, uncured sealant could cause irritation to skin and eyes. In case of eye contact, flush eyes with warm water for 15 minutes, call a physician. For skin contact, remove sealant with a paper towel. If swallowed, do not induce vomiting, call a physician. Qualicaulk is manufactured for professional use only. Refer to Safety Data Sheet (SDS) for further information.

3. Storage and Packaging

Qualicaulk is packaged in 20 oz foil sausages and sold by the case (16/20 oz sausages).

Shelf Life: 12 months in unopened packaging in a cool and dry storage place at temperatures between 41°F (5°C) and 77°F (25°C)

4. Installation Guidelines

Adhesion:

Qualicaulk has an excellent adhesion on almost all substrates. Qualicaulk has been tested on the following surfaces: steel, AlMgSi1, brass, electrolytic galvanized steel, AlCuMg1, flame galvanized steel, AlMg3, steel ST1403 and Kynar 500. Plastics that were tested include: polystyrene, polycarbonate (Makrolon®), PVC, polyamide, glasfiber reinforced epoxy and polyester (GRP). While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding. For optimum adhesion the use of Surface Activator is recommended.

NOTICE: bonding plastics like PMMA (ie Plexi® glass) and polycarbonate (ie Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Qualicaulk is not recommended in these applications. There is no adhesion on PE, PP, PTFE (Teflon®), and silicone.

Features and Benefits

- ✓ Universal caulking material
- ✓ Excellent adhesion on porous and non-porous substrates
- ✓ 500% Elongation
- ✓ High green strength, quick build-up of end strength, high shear strength after full cure
- ✓ Easy to tool and finish
- ✓ Color stable and UV stable
- ✓ Free of isocyanates, solvents, halogens, and acids

Substrates:

Surface Preparation: clean, dry, free of dust and grease

- It is expected that the product will adhere and perform in uncontaminated joints with most common construction substrates, without the use of a primer.
- Porous surfaces in water loaded applications should be primed.
- Surface Activator may be used to pretreat non-porous surfaces.
- A preliminary compatibility tests pervious to application is always recommended.

Resistance to chemical agents:

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids, chlorinated hydrocarbons.

Joint dimensions:

Minimal Width: 1/4”
Maximum Width: 1 3/16”
Minimum Depth: 1/5”
Recommendation: width = 2 x depth

Bonding Layer:

A bonding layer of at least 5/64” to achieve a bond with maximum elastic properties is recommended.

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Application:

Method: Manual- or pneumatic caulking gun. Application temperature: 40°F to 90°F. Cleaning: with IPA immediately after use and before curing. Repair with: Qualicaulk.

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Remarks:

- Pre-testing for adhesion is intended to eliminate potential problems. This testing will aid in determining the proper surface preparation method.
- May be painted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application. The drying time of alkyd resin based paints may increase.
- Can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate, etc. may differ from manufacturer to manufacturer. Recommend preliminary compatibility tests.
- Porous surfaces in water loaded applications should be primed.
- Lower temperatures and humidity will extend curing time.

5. Limitations

- Contact with plasticizer containing plastics can lead to incompatibility, such as discoloration or loss of adhesion.

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6. Technical Data

VOC	60 g/L	Directive 2004/42/EG
Sag	No Sag	ASTM C 639
Skin Formation	5 minutes	@ 75°F & 50% relative humidity
Tack-free time	20 minutes	ASTM C 679
Cure time	24-48 hrs – 1/4” diameter bead	@ 75°F & 50% relative humidity
Hardness – Shore A	45-55	ASTM C 661
Tensile Strength	400 psi	ASTM D 412
Elongation	500%	ASTM D 412
Movement capability	+/- 25%	ASTM C 719
Stain and color change	Passes	ASTM C 510 (mortar)
Artificial weathering	No cracking	ASTM C 793
Application temperature range	-35°F to 140°F	

Consult the Safety Data Sheet for more details

For complete and latest warranty and product information, please visit www.advpolytech.com

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Acrylic Sport & Recreational Surfaces

SKATE ON LAYKOLD Specification

PART 1 – GENERAL

1.1 DESCRIPTION

Scope: This guide specification covers the construction and installation for the SKATE ON LAYKOLD inline skating surface. The work to be performed under this specification includes all labor, equipment, materials and supplies necessary for the installation of the inline rink(s) included in this contract. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. Skate On LAYKOLD is a multi-layer acrylic system designed for in-line skating surfaces. The products should be applied only to properly prepared concrete or asphalt substrates. The Skate On LAYKOLD system is comprised of Acrylic Resurfacer (Base Coat), Advantage Laykold (Wear Coat), and Colorcoat Concentrate (Top Coat). If the Skate On LAYKOLD products are to be applied to a concrete substrate, then Laykold Poly Primer (< 75% Relative Humidity) or Laykold Epoxy VTB Primer (≥75% Relative Humidity) is required.

1.2 QUALITY ASSURANCE

A. Inline skating surfacing materials shall be manufactured by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001 and ISO 14001certified manufacturer. APT may be contacted via telephone 724-452-1330, fax 724-452-1703, or web sites www.laykold.com and www.advpolytech.com.

B. All work shall be done in accordance with American Sports Builders Association (ASBA) guidelines.

C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.3 SUBMITTALS

A. Submit one set of Advanced Polymer Technology's "Skate On LAYKOLD Specifications".

B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.

C. Submit current Safety Data Sheets (SDS).

D. Submit current ISO Quality Management System Certification certificate.

1.4 WORKING CONDITIONS & LIMITATIONS

A. Asphalt/concrete shall be allowed to cure a minimum of 30 days before any coatings are applied. If time sensitive and/or high RH level is present, Laykold Epoxy VTB Primer can be applied to 5-day old (minimum) concrete substrates according to coatings manufacturer guidelines. RH testing is required.

B. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt, and other foreign matter before any coatings are applied.

C. Water used in all mixtures shall be fresh and potable.

D. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

E. Do not apply coatings to a cold surface. Surface and air temperature must be a minimum of 50°F (10°C) and rising.

F. Do not apply coatings is extremely high humidity prevents drying.

G. No coatings are to be applied if the surface temperatures exceed 130°F (54°C).

H. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

I. Color(s) of inline skating system is to be selected by owner from manufacturer's product color card and/or product samples.

J. If all the above conditions are met, surfacing materials shall have a one-year limited warranty as supplied by the manufacturer.

1.5 WARRANTY

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for one (1) year. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in
excess of the quantity of material furnished by APT in connection with the project. No salesman or other employee or agent of APT is authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or implied, statutory or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

PART 2 – PRODUCTS

2.1 SKATE ON MATERIALS

A. All components for the Skate On system shall be supplied by Advanced Polymer Technology, an ISO 9001and ISO 14001 certified manufacturer. All components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.

B. Laykold Poly Primer/Laykold Epoxy VTB Primer (concrete only) – two component, 100% solids, solvent-free primer.
   1. Percent Solids by Weight: 98% (minimum)
   2. Weight: 10.7 lbs/gallon

C. Acrylic Resurfacer (Base Coat) – acrylic-based emulsion used for smoothing rough pavements. 1 to 2 coats as required. Laykold NuSurf is recommended for use on new asphalt and is an acceptable substitute for Acrylic Resurfacer.
   1. Percentage Solids by weight: 52% (minimum)
   2. Weight: 10.7 lbs/gallon

D. Advantage Laykold (Wear Coat) – factory textured, pigmented wear-resistant acrylic emulsion. 2-coats required. No bagged sand is to be added at jobsite.
   1. Percent Solids by Weight: 72.9% (minimum)
   2. Weight: 12.52 lbs/gallon

E. Colorcoat Concentrate (Top Coat) – pigmented wear-resistant acrylic emulsion. 1-coat required.
   1. Percent Solids by Weight 49 % (minimum)
   2. Weight: 9.47-9.52 lbs/gallon

F. Laykold Line Prime – clear drying acrylic emulsion line primer. 1-coat required.
   1. Percent Solids by Weight: 29% (minimum)
   2. Weight: 8.9 lbs/gallon

G. Laykold Textured White Line Paint – factory textured, wear-resistant acrylic emulsion line marking paint. 1-2 coats as required.
   1. Percent Solids by Weight: 67% (minimum)
   2. Weight: 11.4 lbs/gallon

PART 3 – EXECUTION

3.1 INSPECTION

A. Concrete substrates shall be installed with a vapor barrier according to ASBA guidelines and be finished with a CSP 3 profile.

B. Inspect concrete or asphalt substrate for dryness. Concrete substrates are to be tested according to coating manufacturer guidelines using ASTM F2170 (Relative Humidity testing via probe) or ASTM F1869-98 (Anhydrous Calcium Chloride test). Report any discrepancies to the general contractor or owner.

C. Surface of substrate shall be cleaned by general contractor as required.

D. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 INSTALLATION

A. Primer (for concrete substrates only): When installing the Laykold ColorCoat system over concrete, Laykold Poly Primer must be applied as the first layer of the system. After RH tests less than 75%, Laykold Poly Primer can be applied. Laykold Poly Primer is mixed by pouring the "B" component into the "A" component and mixing using a low speed jiffy mixer (400 to 600 rpm) for 2 minutes. Scrape down the sides of the bucket and mix for an additional minute. Do not incorporate air when mixing. Spread the mixed primer on the substrate using a high-quality, medium nap roller to achieve a total coverage of approximately 0.030 gal/yd^2 (0.15 kg/m^2 - 300 ft^2/gal). The working time for the Primer is approximately 50 minutes and is reduced in high temperatures. Lightly broadcast 40 to 60 mesh silica sand onto the wet primer at the rate of 5 pounds per 100 sq. ft. (0.24 kg/m^2) to create a rough texture. Allow 5 to 6 hours drying time before proceeding. If the concrete substrate tests with RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) of greater than 3 lbs/1000 sqf/24 hours, more cure time is required or Laykold Epoxy VTB Primer can be used (see Laykold Epoxy VTB Primer TDS for application guidelines). Acrylic Concrete Primer may be substituted under certain conditions when

approved by owner and/or design professional. If approved for use, see Acrylic Concrete Primer technical data sheet for application details.

B. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.
   1. Surface Leveling: Birdbaths shall be leveled using Laykold Acrylic Deep Patch court patch binder slurry. Prime area to be patched with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand and Type 1 Portland Cement. Mix as per manufacturer directions.
   2. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions.
   3. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.

C. Base Coat: Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat. NOTE: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold Nusurf is an acceptable substitute for Laykold Acrylic Resurfacer and is highly recommended for use on new asphalt pavements, older asphalt pavements with hairline surface cracking, slip-sheet/free-floating surfaces and/or repair methods over cushioned courts.

D. Wear Coat: Apply two coats of Advantage Laykold textured color concentrate batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons (170 kg) of Advantage Laykold and 7.5 gallons (28 kg) of potable water. The application rate shall be 0.06-0.07 gal/yd^2 (0.41-0.47 kg/m^2 - 130-150 ft^2/gal) of undiluted Advantage Laykold per coat. Each coat should be completely dry before applying subsequent coats.

E. Top Coat: Apply one coat of Laykold ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Colorcoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted Colorcoat Concentrate per coat.

F. Game Lines: Apply one to two coats of Laykold White Line Paint, as needed.
   1. Wait a minimum of 24 hours after final Top Coat before applying line paint.
   2. All lines are to be applied by painting between masking tape with a paintbrush or roller according to U.S.T.A. and ASBA specifications.
   3. Prime masked lines with Laykold Line Prime and allow to dry.
   4. Remove masking tape immediately after lines are dry.

G. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

3.3 PROTECTION

A. Cure Time -- no traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.

B. Other Trades -- it is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.

C. Do not allow surrounding sprinkler systems to spray water on the newly applied surface for a period of one week after completion.

D. Do not place any benches, chairs, or any other type of equipment on the newl applied surface for a period of one week after completion.

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness, and make other such adjustments to a new or existing surface/ substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and or forces associated with cracked, deteriorating, or damaged substrates.

SkateOn

General Description

Laykold SkateOn is a wear-resistant, 100% acrylic emulsion consisting of high quality pigments and polymers that are blended into a concentrated form. SkateOn does not contain any asbestos, lead, or Mercury.

Basic Uses: Laykold SkateOn can be applied to asphalt or properly prepared concrete for the protection and beautification of many recreational surfaces, including tennis courts, basketballs courts, playgrounds, handball courts, paddle tennis courts, shuffleboard, etc.

Features and Benefits

- Wear resistant
- Environmentally friendly
- Contains no Asbestos, Lead, or Mercury
- Variety of colors

Colors: SkateOn is available in twelve (12) colors: Medium Green, Dark Green, Forest Green, Grass Green, Red, Beige, Grey, Burgundy, Light Blue, Dark Blue, Pro Blue, and Royal Purple. Other colors are available upon request.

Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing.

Storage and Packaging

SkateOn should be kept dry and cool. Storage temperature should be between 4°C (40°F) and 32°C (90°F).

Packaging: 55-gallon drum (260 kgs/drum) or 30-gallon drum (142 kgs/drum).

Coverage

Coverage is approximately .03-.04 gals/yd^2 (0.17-0.23 kgs/m^2) (225-300 ft^2/gal) per application of undiluted material.

Coverage may vary depending on pavement porosity and texture.

Installation Guidelines

Existing surface shall be dry, clean, free from all dirt, dust and foreign debris, and shall be dry. New asphalt and concrete should be allowed a 30-day curing period before applying any coatings. If SkateOn is to be applied over concrete, please refer to the Laykold Concrete Primer technical data sheet. Prior to application of any coatings, the entire area should be flooded with water and checked for depressions of 1/16" or greater. Depressions shall be leveled using Laykold Deep Patch. Refer to individual technical data sheets for mixture application details. Once patching is complete, 1-2 applications of Laykold NuSurf, Acrylic Resurfacer or Asphalt Resurfacer, as specified,

shall be applied to the surface. Refer to the individual technical data sheets for mixture and application details. Please note that resurfacer coats may NOT be necessary over previously coated surfaces that are in good condition. When adding water, SkateOn must then be mixed thoroughly until the material is consistent.

SkateON mixing instructions:

55-gallons of SkateOn
50-55 gallons of clean water

The mixed product shall be applied to the surface using a soft, rubber squeegee. Two (2) applications of SkateOn (minimum) are necessary and should be pulled at 90° angles.

Limitations

- Do not apply when surface temperature exceeds 130°F (54°C).
- Do not apply when temperatures are below 50°F (10°C) or when rain is imminent.
- Do not allow to freeze.
- Do not over dilute with water.
- Drying time of 2 – 4 hours depending on weather conditions.
- Minimum 1 hour to recoat.

Technical Data

Results based on temperature of 77°F and 50% Humidity

VOC		29.5 g/L*
Density		1.19 - 1.29 g/cm^3
Viscosity		30,000 - 40,000 cPs
Tensile Strength	Top Layer Results	Avg. 3.73 N/mm^2
Elongation	Top Layer Results	Avg. 19.7%
Abrasion	Top Layer Results	319.3 mg loss

*Based on standard formula calculation

Above figures are guide values and should not be used as a base for specifications
Consult the Safety Data Sheet (SDS) for more details

For complete and latest warranty and product information, please visit www.advpolytech.com

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Rev 1 WAB 03/07/23

TracBase

1. General Description

TracBase is a latex styrene butadiene copolymer emulsion composed with additional additives designed to adhere to the substrate..

Basic Uses: TracBase is designed for binding rubber granules in the production of synthetic sports surfacing. The rubber/binder mixture may or may not be covered with TracTop coatings.

Standard Colors: Neutral

Features and Benefits

- ✓ May be pigmented onsite
- ✓ Available in Neutral
- ✓ Ready to use as supplied
- ✓ 47-49% Solid Content
- ✓ Other colors available upon request

2. Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during the application process

3. Storage and Packaging

TracBase should be stored in a dry and cool area. Storage temperatures should be between 10°C (50°F) and 32°C (90°F). Shelf life of product stored in sealed container is 12 months. Avoid freezing temperatures since product quality may be adversely affected.

TracBase is packaged at 1020 kg (approximately 275 gallon).

4. Coverage

TracBase is ready for use as supplied. For flow ability, water may be added. Maximum dilution: 2 parts TracBase: 1 part water.

5. Installation Guidelines

Prime: The base surface shall be primed with 0.05 gal/syd of TracBase. When used as a primer, TracBase shall be mixed at a ratio not to exceed one part binder to one part clean water (1:1).

Base Layers (1 and 2): Base installation totals shall consist of 0.285 gal/syd of TracBase and 4.75 lbs/syd of granules. TracBase shall be mixed not to exceed two parts material to one part clean water (2:1). Two layers of granules shall be applied with each layer being sprayed separately with TracBase until thoroughly encapsulated. The granules shall not be clumped or mounded and shall be

applied in a manner so that there are no dry granules after encapsulation. Each layer shall be allowed to cure 24 hours before continuing.

Apply first layer of granules at a rate of 2.0 lbs./syd. Spray with TracBase at a rate of 0.12 gal/syd. Apply second layer of granules at a rate of 2.75 lbs./syd. Spray with TracBase at a rate of 0.165 gal/syd.

For colored EPDM systems, increase the total binder to 0.40 gal/syd and increase the rubber to 3 lbs./syd per layer.

NOTE: Rubber application rates may differ slightly between manufacturers due to variances in specific density and gradation.

6. Limitations

- Minimum substrate and application temperature: 10°C (50°F)
- Maximum substrate and application temperature: 40°C (104°F)

7. Technical Data

Results based on 23°C (72°F) and 50% Relative Humidity

Bulk Density	Minimum of 8.5 lbs/gal
Color	Black, Red, and Neutral
Solids Content	47 to 49%

Above figures are guide values and should not be used as a base for specifications.

Consult the Safety Data Sheet (SDS) for more detail.

For complete and latest warranty and product information, please visit www.advpolytech.com

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Tractop

1. General Description

TracTop is a latex styrene butadiene copolymer emulsion.

Basic Uses: TracTop is designed for binding rubber granules in the production of synthetic sports surfacing.

Standard Colors: Black, Red, and Neutral

Features and Benefits

- ✓ May be pigmented onsite
- ✓ Available in Black, Red, and Neutral
- ✓ Ready to use as supplied
- ✓ 47-49% Solid Content
- ✓ Other colors available upon request

2. Safety Guidelines

Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during the application process

3. Storage and Packaging

TracTop should be stored in a dry and cool area. Storage temperatures should be between 10°C (50°F) and 32°C (90°F). Shelf life of product stored in sealed container is 12 months. Avoid freezing temperatures since product quality may be adversely affected.

TracTop is packaged at 1,020 kg (approximately 275 gallon).

4. Coverage

TracTop is ready for use as supplied. For flow ability, water may be added. Maximum dilution: 2 parts TracTop: 1 part water.

5. Installation Guidelines

Top layer (3 and 4): The (two) top layers shall total 0.265 gal/syd of TracTop and 4.50 lbs./syd of granules. TracTop shall be mixed not to exceed two parts material to one part clean water (2:1). Two layers of granules shall be applied with each layer being sprayed separately with TracTop until thoroughly encapsulated. The top granules shall not be clumped or mounded and shall be applied in a manner so that there are no dry granules after encapsulation. Each layer shall be allowed to cure 24 hours before continuing. UV pigment or color tint may be added to the latex binder for the final layer. If UV pigment is specified, dilution shall be ten parts latex binder to one part pigment (10:1).

Apply first layer (3rd overall) of granules at a rate of 2.75 lbs./syd. Spray with TracTop at a rate of 0.165 gal/syd. Apply second layer (4th overall) of granules at a rate of 1.75 lbs./syd. Spray with TracTop at a rate of 0.10 gal/syd.

Finish Spray: A final application of TracTop is sprayed at the rate of 0.05 gal/syd. TracTop shall be mixed not to exceed two parts material to one part clean water.

For colored EPDM systems, increase the total binder to 0.40 gal/syd and increase the rubber to 3 lbs./syd per layer.

NOTE: Rubber application rates may differ slightly between manufacturers due to variances in specific density and gradation.

6. Limitations

- Minimum substrate and application temperature: 10°C (50°F)
- Maximum substrate and application temperature: 40°C (104°F)

7. Technical Data

Results based on 23°C (72°F) and 50% Relative Humidity

Bulk Density	Minimum of 8.5 lbs/gal
Color	Black, Red, and Neutral
Solids Content	47 to 49%

Above figures are guide values and should not be used as a base for specifications.

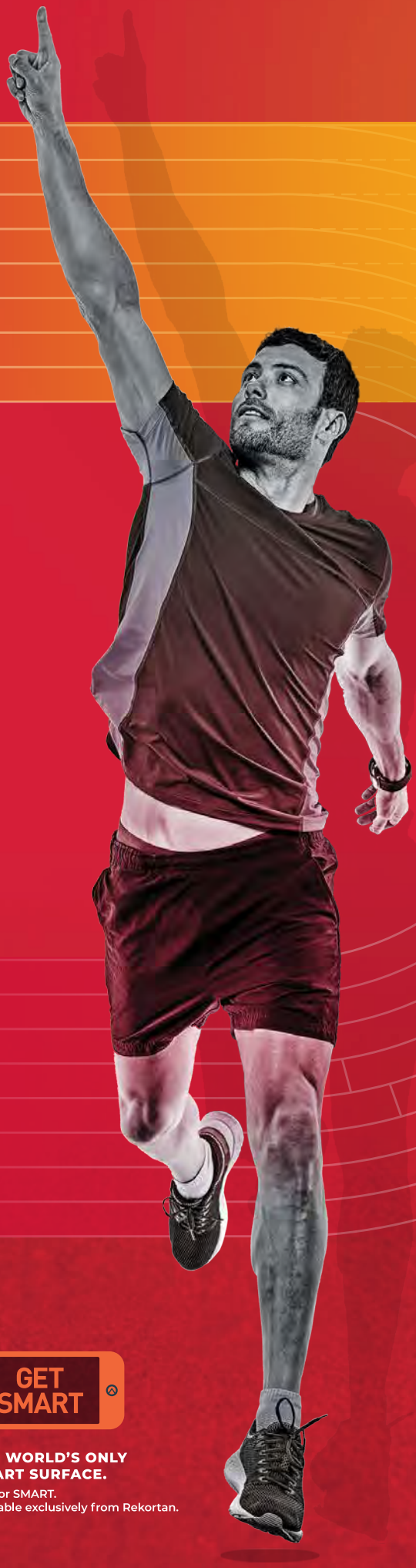
Consult the Safety Data Sheet (SDS) for more detail.

For complete and latest warranty and product information, please visit www.advpolytech.com

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Rekortan®

B



THE WORLD'S MOST CERTIFIED TRACKS

BASE MAT

BUDGET FRIENDLY. "BUILDING BLOCK" TRACK

SMART
ATHLETE PERFORMANCE DIAGNOSTIC SYSTEM

GET SMART

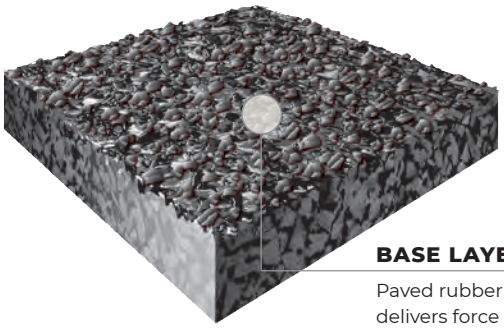
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BASEMAT / B

BUDGET FRIENDLY LONG LIFESPAN TRACK.

Single layer, 13mm min, permeable paved-in-place base layer. “Building Block” track, can be enhanced as budgets allow.



BASE LAYER

Paved rubber and polyurethane basemat delivers force reduction and ensures planarity for predictable footing

BENEFITS

BY ADDING TO YOUR “BUILDING BLOCK” POLYURETHANE TRACK YOU CAN EXPECT THE FOLLOWING BENEFITS COMPARED TO LATEX TRACKS:

RESISTANCE TO TIME + SEASONALITY CHANGES

POLYURETHANE	vs	LATEX
Retain physical properties over time and through seasonal temperature changes.		Become harder over time and are seasonally sensitive to temperature changes - hard in cold, too soft in warm.

Comparisons assume a track has been upgraded and properly maintained.

COST OF OWNERSHIP

POLYURETHANE	vs	LATEX
Up to 20% savings, depending on surface, over the life of the track.		More costly over time, latex recoating causes the track to become harder.

WHY CHOOSE REKORTAN VS LATEX TRACKS?

WORLD ATHLETICS STANDARDS

POLYURETHANE	vs	LATEX
Can be built up to meet World Athletics standards for physical properties, force reduction and athlete safety.		Does not meet World Athletics force reduction standards.

LIFESPAN

POLYURETHANE	vs	LATEX
25-30 years.		12-15 years.

EASIER REPLACEMENT

POLYURETHANE	vs	LATEX
May not require new asphalt.		Often requires a full tear out of asphalt.

FOR MORE INFORMATION: WEB: www.rekortan.com EMAIL: info@rekortan.com

U.S. TRACK & FIELD AND CROSS COUNTRY COACHES ASSOCIATION SUPPORTER

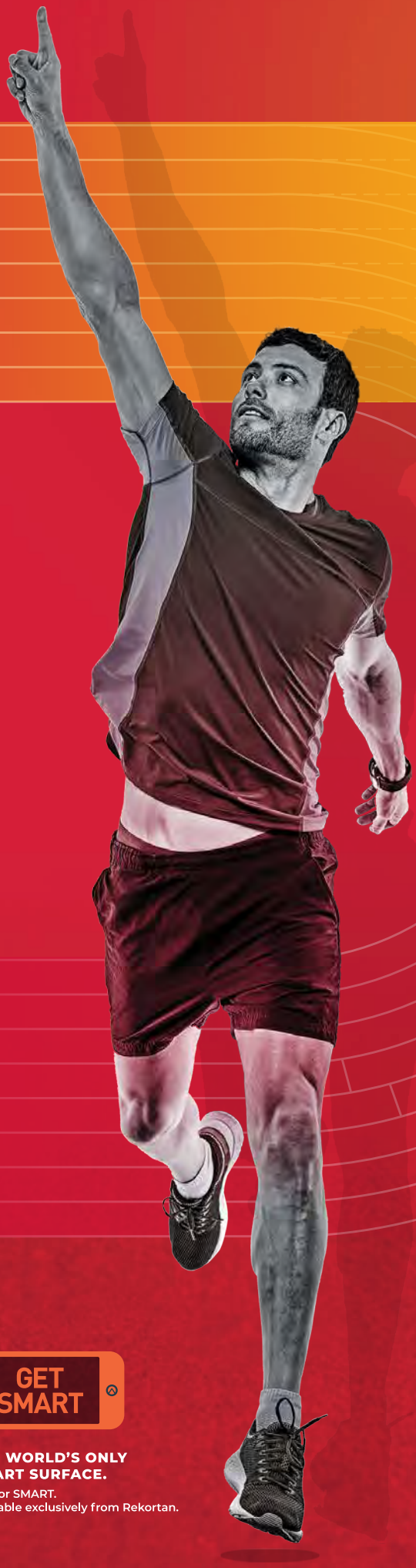
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BS



THE WORLD'S MOST CERTIFIED TRACKS

BASE MAT

BUDGET FRIENDLY.
REGIONAL STADIUMS, SCHOOLS, COMMUNITY & MULTIPURPOSE.
FORCE REDUCTION.

SMART
ATHLETE PERFORMANCE DIAGNOSTIC SYSTEM

GET SMART

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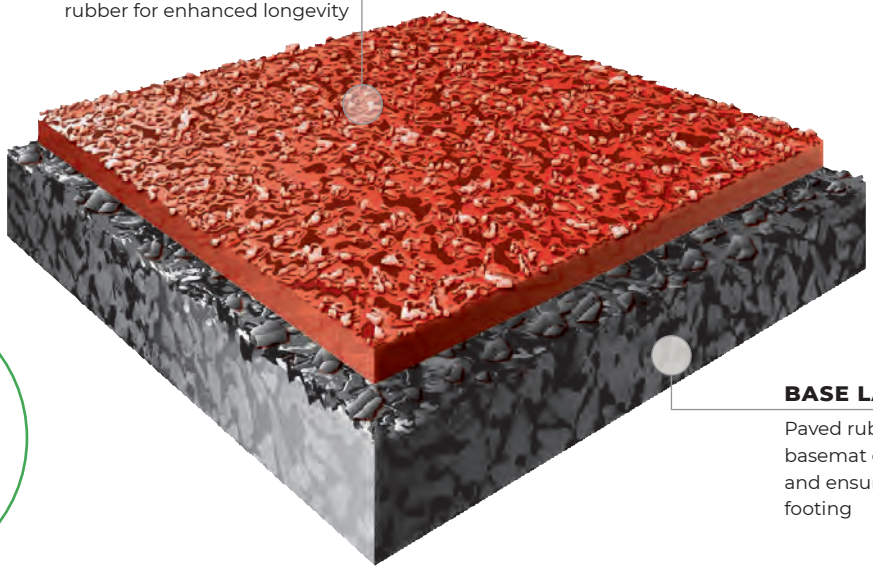
BASEMAT / BS

FOR STADIUMS, COMMUNITIES, SCHOOLS & MULTIPURPOSE

This 13mm permeable, budget conscious system features a paved-in-place base layer and encapsulated wear layer

WEAR LAYER

Textured structural polyurethane binds rubber for enhanced longevity



BASE LAYER

Paved rubber and poluyrethane basemat delivers force reduction and ensures planarity for predictable footing

FORCE REDUCTION TECHNOLOGY.

HIGHLIGHTS

- World Athletics Certified System
- Permeable basemat structural coat system
- High energy return
- Budget friendly
- Top wear layer is encapsulated, which binds rubber (no shedding), spike resistant, enhanced longevity

COLORS

Additional & Special Colors are available on request.



Red *Black* *Rainbow Blue* *Berlin/Hertha Blue*

Signal Green *Charcoal* *Steel Blue*

CERTIFICATION & TEST REPORTS

- WORLD ATHLETICS
- ASTM F2157
- EN 14877

FOR MORE INFORMATION: WEB: www.rekortan.com EMAIL: info@rekortan.com

WORLD ATHLETICS

U.S. TRACK & FIELD AND CROSS COUNTRY COACHES ASSOCIATION SUPPORTER

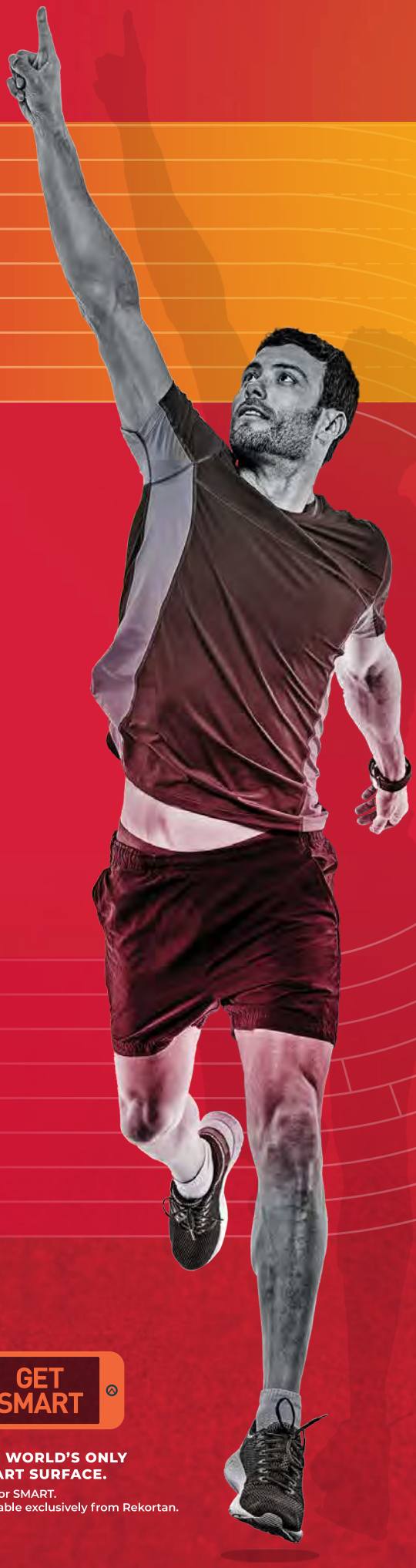
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BSS



THE WORLD'S MOST CERTIFIED TRACKS

BASE MAT

BUDGET FRIENDLY.
REGIONAL STADIUMS, SCHOOLS, COMMUNITY & MULTIPURPOSE.
FORCE REDUCTION.

SMART
ATHLETE PERFORMANCE DIAGNOSTIC SYSTEM

GET SMART

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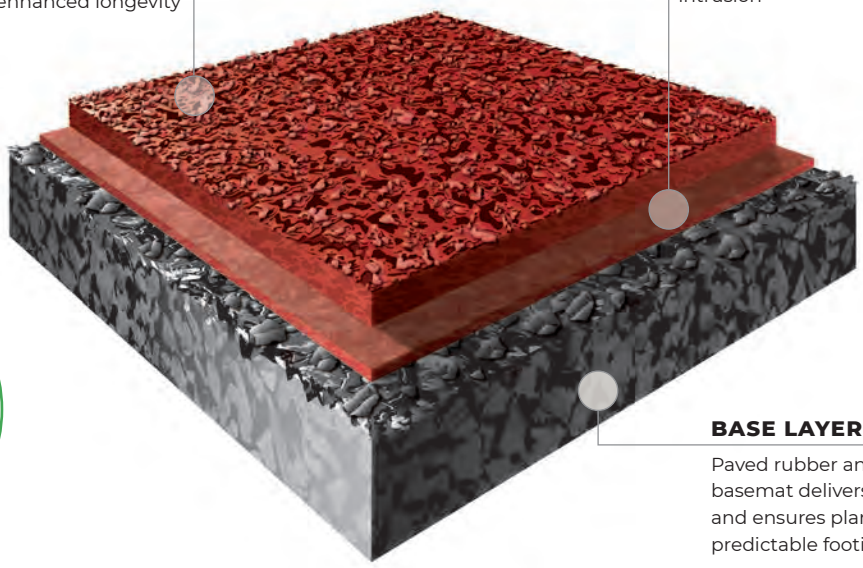
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BUDGET FRIENDLY WITH FORCE REDUCTION.

This 13mm impermeable, budget conscious system features an encapsulated wear layer and sealed paved-in-place base layer

WEAR LAYER
Textured structural polyurethane binds rubber for enhanced longevity

SEAL LAYER
Seal layer to protect against water intrusion



BASE LAYER
Paved rubber and polyurethane basemat delivers force reduction and ensures planarity for predictable footing

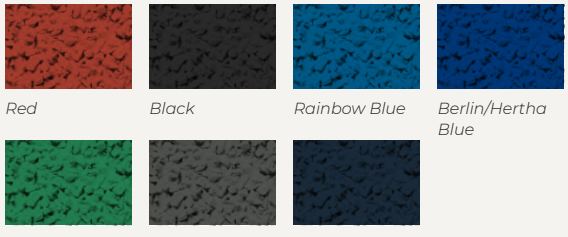
FORCE REDUCTION TECHNOLOGY.

HIGHLIGHTS

- World Athletics Certified System
- Impermeable basemat structural coat system
- High energy return
- Budget friendly
- Top wear layer is encapsulated, which binds rubber (no shedding), spike resistant, enhanced longevity

COLORS

Additional & Special Colors are available on request.



Red *Black* *Rainbow Blue* *Berlin/Hertha Blue*

Signal Green *Charcoal* *Steel Blue*

CERTIFICATION & TEST REPORTS

- WORLD ATHLETICS
- ASTM F2157
- EN 14877

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Rekortan® G10



THE WORLD'S MOST CERTIFIED TRACKS

GEL SERIES

ENVIRONMENTALLY FRIENDLY WITH FORCE REDUCTION TECHNOLOGY

SMART
ATHLETE PERFORMANCE DIAGNOSTIC SYSTEM

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GEL SERIES / REKORTAN G10

THE WORLD'S GREENEST TRACK

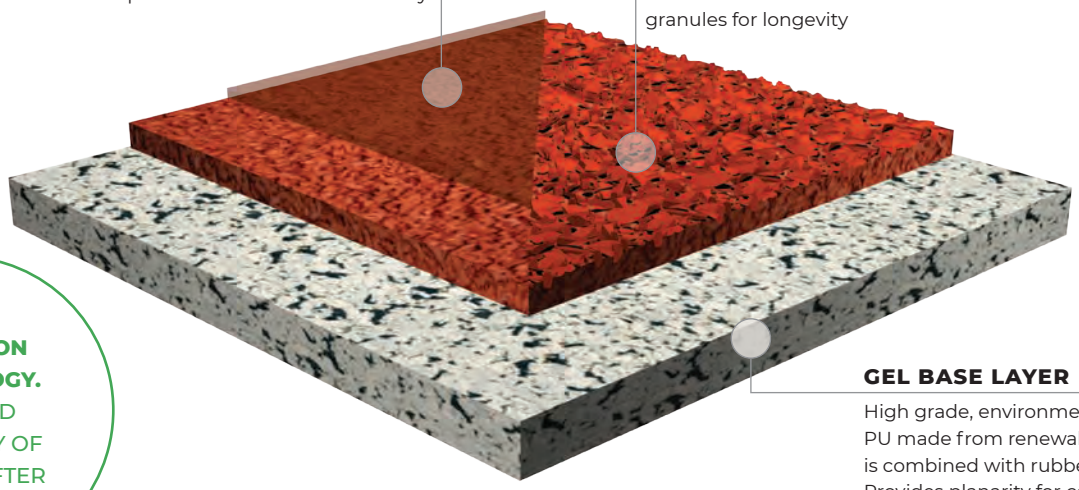
This dual durometer 10mm, impermeable system features 2 specialized layers, with a durable wear layer and a unique environmentally friendly force reduction base.

FAST TRACK WEAR LAYER

Smaller rubber granules are encapsulated for increased durability

TRADITIONAL WEAR LAYER

Traditional Wear Layer. Seamless, dense matrix of PU and rubber granules for longevity



FORCE REDUCTION TECHNOLOGY. RETAINED FLEXIBILITY OF 95%-97% AFTER 10 YEARS!

GEL BASE LAYER

High grade, environmentally friendly PU made from renewable resources is combined with rubber granules. Provides planarity for consistent footing and energy return for maximum speed

HIGHLIGHTS

- Meets all World Athletics performance criteria except thickness
- Featuring a unique green layer, based on 70% renewable polyurethane, resulting in a total of 88% renewable/ recyclable content
- Force reduction and energy return sustained over a greater temperature range than typical PU systems
- Formulated to resist UV degradation in the world's harshest climates
- Top wear layer is poured-in-place and embedded to a seamless, predictable surface that resists spikes
- Hydrophobic formulation repels water, enabling these surfaces to resist water damage

COLORS

Additional & Special Colors are available on request.



Red *Black* *Rainbow Blue* *Berlin/Hertha Blue*

Signal Green *Charcoal* *Steel Blue*

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G13



THE WORLD'S MOST CERTIFIED TRACKS

GEL SERIES

ENVIRONMENTALLY FRIENDLY WITH FORCE REDUCTION TECHNOLOGY

SMART
ATHLETE PERFORMANCE DIAGNOSTIC SYSTEM

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GEL SERIES / REKORTAN G13

THE WORLD'S GREENEST TRACK

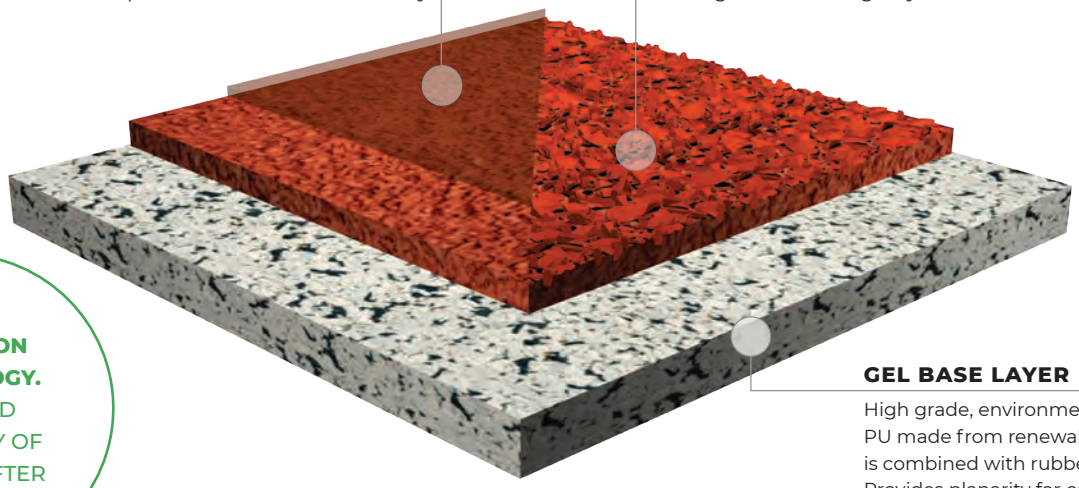
This dual durometer 13mm, impermeable system features 2 specialized layers, with a durable wear layer and a unique environmentally friendly force reduction base.

FAST TRACK WEAR LAYER

Smaller rubber granules are encapsulated for increased durability

TRADITIONAL WEAR LAYER

Seamless, dense matrix of PU and rubber granules for longevity



FORCE REDUCTION TECHNOLOGY. RETAINED FLEXIBILITY OF 95%-97% AFTER 10 YEARS!

GEL BASE LAYER

High grade, environmentally friendly PU made from renewable resources is combined with rubber granules. Provides planarity for consistent footing and energy return for maximum speed

HIGHLIGHTS

- World Athletics Certified System
- Featuring a unique green layer, based on 70% renewable polyurethane, resulting in a total of 88% renewable/ recyclable content
- Force reduction and energy return sustained over a greater temperature range than typical PU systems
- Formulated to resist UV degradation in the world's harshest climates
- Top wear layer is poured-in-place and embedded to a seamless, predictable surface that resists spikes
- Hydrophobic formulation repels water, enabling these surfaces to resist water damage

COLORS

Additional & Special Colors are available on request.



Red *Black* *Rainbow Blue* *Berlin/Hertha Blue*

Signal Green *Charcoal* *Steel Blue*

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M



THE WORLD'S MOST CERTIFIED TRACKS

SANDWICH

IDEAL TRAINING & COMPETITION SURFACE.

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ATHLETE PERFORMANCE DIAGNOSTIC SYSTEM

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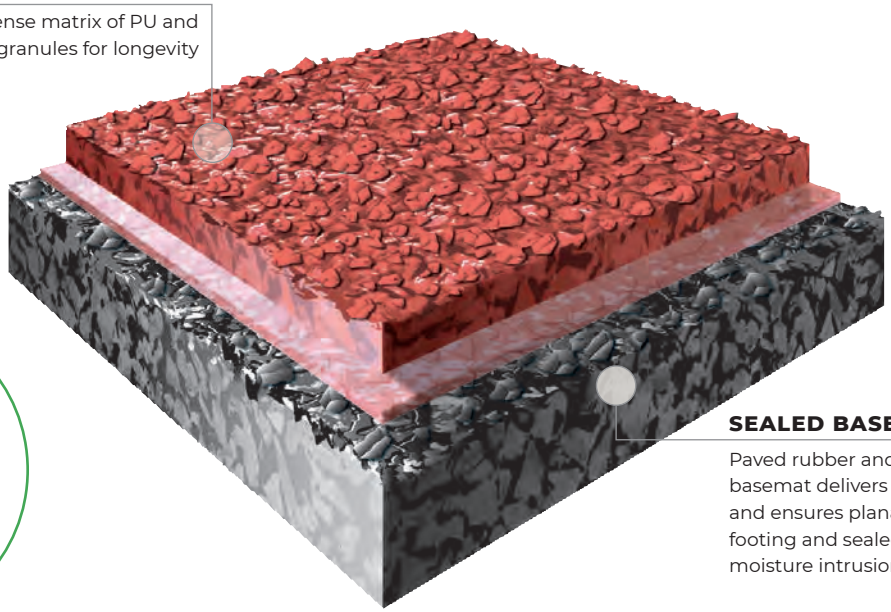
SANDWICH / M

WORLD'S #1 SELLING TRACK

This impermeable sandwich system features 2 distinct layers – durable wear layer and sealed paved-in-place base layer.

WEAR LAYER

Seamless, dense matrix of PU and rubber granules for longevity



FORCE REDUCTION TECHNOLOGY.

SEALED BASE LAYER

Paved rubber and polyurethane basemat delivers force reduction and ensures planarity for predictable footing and sealed to protect against moisture intrusion

HIGHLIGHTS

- World Athletics Certified System - Most Certified Track!
- Impermeable, two-component paved-in-place sandwich style track, high energy return
- Formulated to resist UV degradation in the world's harshest climates
- Top wear layer is poured-in-place and embedded to a seamless, predictable surface that resists spikes
- Made from 49% recycled and renewable material, green footprint

COLORS

Additional & Special Colors are available on request.

Red *Black* *Rainbow Blue* *Berlin/Hertha Blue*

Signal Green *Charcoal* *Steel Blue*

CERTIFICATION & TEST REPORTS

- WORLD ATHLETICS
- EN 14877
- DIN 18035-6
- RAL GZ-943
- UVP ACC. DIN 18035-6

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Rekortan®

M99



THE WORLD'S MOST CERTIFIED TRACKS

FULL PUR

OFFICIAL SURFACE OF THE PENN RELAYS SINCE 1988

SMART
ATHLETE PERFORMANCE DIAGNOSTIC SYSTEM

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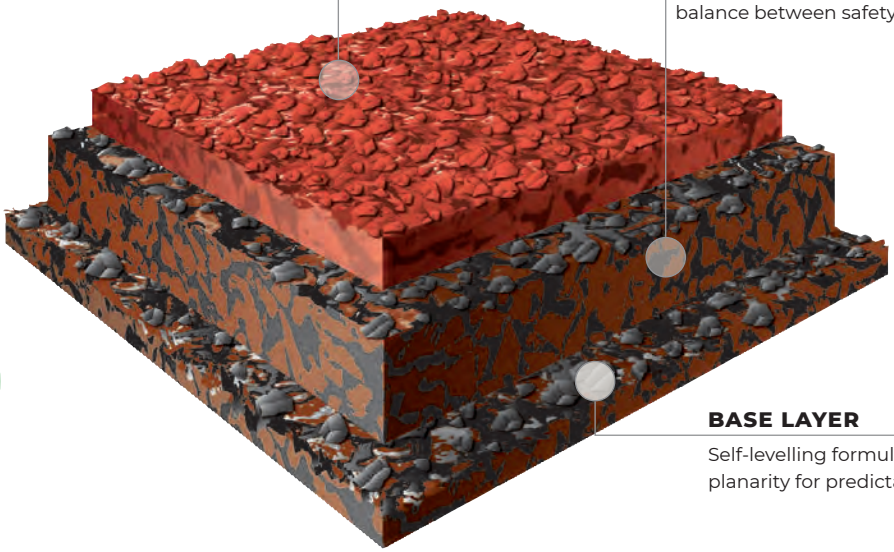
FULL PUR / M99

THE SURFACE OF THE PENN RELAYS

This 15mm, impermeable full PUR system features 3 specialized layers, with a durable wear layer and a unique micro-foam force reduction layer.

WEAR LAYER
Seamless, dense matrix of PU and rubber granules for longevity

FORCE REDUCTION LAYER
Unique micro-foam balances energy return and force reduction for the ideal balance between safety and speed



FORCE REDUCTION TECHNOLOGY.

BASE LAYER
Self-levelling formulation ensures planarity for predictable footing

HIGHLIGHTS

- World Athletics Certified System
- Unique polyurethane micro-foam reduces impact and returns energy to the athlete
- Formulated to resist UV degradation in the world's harshest climates
- Top wear layer is poured-in-place and embedded to a seamless, predictable surface that resists spikes
- Globally recognized as the "Fast Tracks" since 1969

COLORS

Additional & Special Colors are available on request.



Red *Black* *Rainbow Blue* *Berlin/Hertha Blue*

Signal Green *Charcoal* *Steel Blue*

CERTIFICATION & TEST REPORTS

- WORLD ATHLETICS
- ASTM F2157
- EN 14877

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RS



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RESURFACE

PROLONG LIFE OF EXISTING TRACK. ADDITIONAL RESILIENCE.

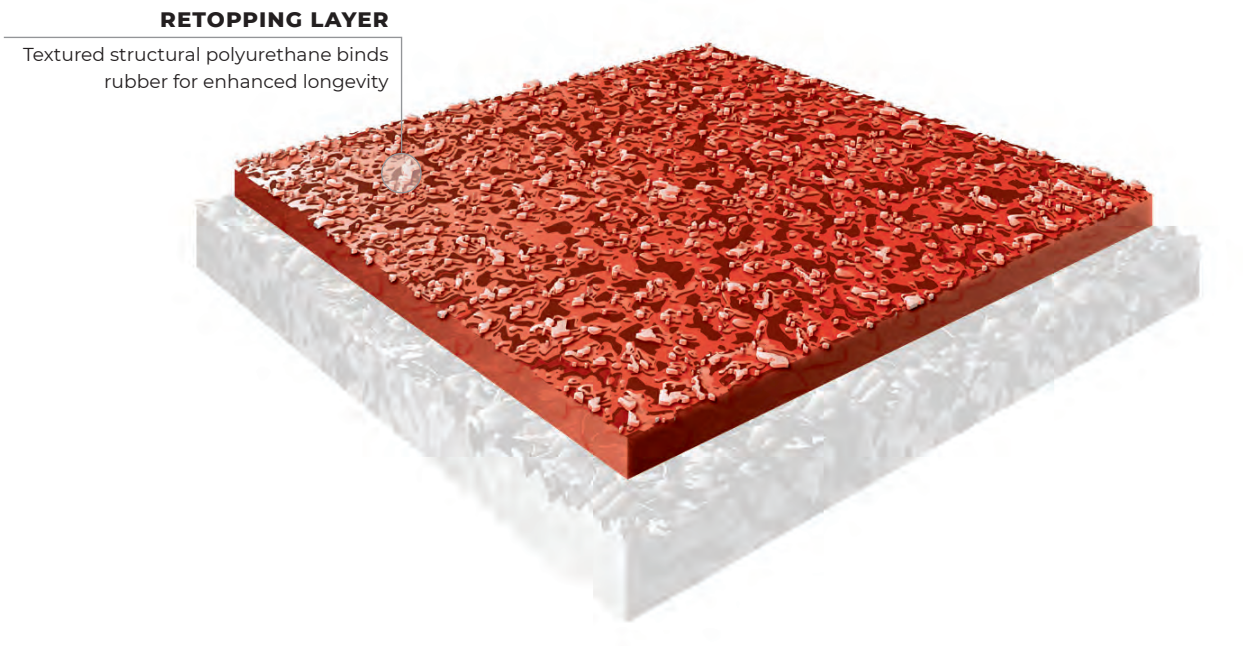
SMART
ATHLETE PERFORMANCE DIAGNOSTIC SYSTEM

GET SMART

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Ask for SMART.
Available exclusively from Rekortan.

PROLONG LIFE OF EXISTING TRACK. ADDITIONAL RESILIENCE

Available to maintain and prolong the use of your track.



HIGHLIGHTS

- Add additional performance and resilience to the surface
- Prolong the life of existing track
- Rejuvinate existing track, premium colors available
- Can be built to World Athletics standards

COLORS

Additional & Special Colors are available on request.



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RT



THE WORLD'S MOST CERTIFIED TRACKS

RESURFACE

PROLONG LIFE OF EXISTING TRACK. ADDITIONAL RESILIENCE

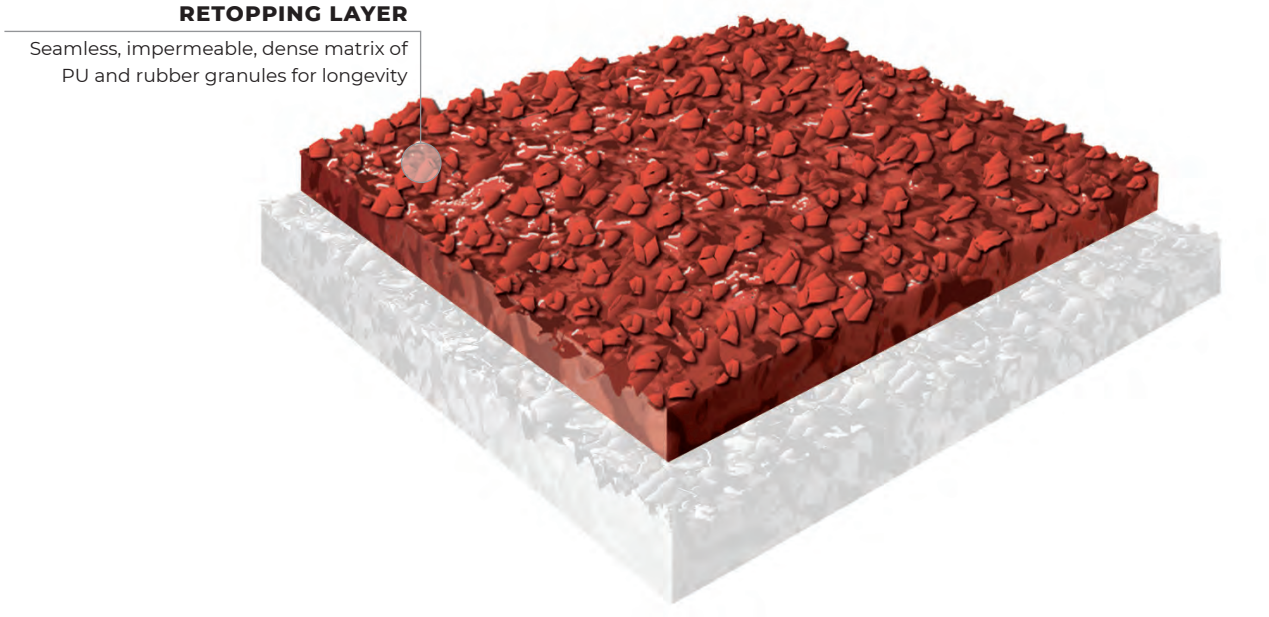
SMART
ATHLETE PERFORMANCE DIAGNOSTIC SYSTEM

GET SMART

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Ask for SMART.
Available exclusively from Rekortan.

PROLONG LIFE OF EXISTING TRACK. ADDITIONAL RESILIENCE

Available to maintain and prolong the use of your track.



HIGHLIGHTS

- To upgrade existing track surface
- Add additional performance and resilience to the surface
- Prolong the life of existing track
- Rejuvenate existing track, premium colors available
- Can be built to World Athletics standards

COLORS

Additional & Special Colors are available on request.



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ASTROTURF® 12 over E-LAYER®

AstroTurf® has a long history of innovation and leadership in the hockey world. It's the brand that changed the sport. And it's the sport that has shaped AstroTurf's history. Our specialized knitting equipment and manufacturing history has kept AstroTurf at the very top of the hockey world's elite surfacing. AstroTurf has been used at every Final Four Tournament since the game left natural grass, and countless international events and Olympics have been hosted on AstroTurf. Today AstroTurf is an FIH Preferred Producer and a vertically integrated manufacturer and installer.

AstroTurf 12 is the classic field hockey system for high level skill development and competition. The knitted nylon fabric construction makes for a fast, smooth, non-directional and durable surface.

The AstroTurf 12 turf system must be installed over a shock absorbing underlayment. A great option is the paved-in-place E-Layer®.

"Ours was a very long process but all the guys at AstroTurf worked with us for several years to get us what we need. Now I have a great field. I highly recommend AstroTurf! They are the best!"

Diane Madl
Head Field Hockey Coach
Providence College
(AstroTurf 12 over E-Layer®, installed over parking deck)

ASTROTURF 12 over E-LAYER

AstroTurf 12 is the classic field hockey system for high level skill development and competition.



- Knitted fiber construction for a monolithic panel. No tufts to pull out. Every fiber is knotted to the next
- Nylon fibers are hydrophilic, meaning they absorb water, which makes the system ideal for wet play
- Installed over a paved-in-place E-Layer
- Full glue-down required
- Non-filled


Princeton University - Princeton, NJ


Quinnipiac University - Hamden, CT


Providence College - Providence, RI


Darthmouth College - Hanover, NH

ASTROTURF 12 E-LAYER

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Texturized Nylon Monofilament	N/A
Yarn Denier	5,200	D-1577
Yarn Thickness	110 microns	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	0.5"	D-5823
Standard Field Color	Stadium Green	None
Construction	Knitted	None
Turf Density	4,320 oz/yd^3	HUD 44d
Gauge:	N/A	D-5793
Primary Backing	5 oz per SY Polyester	D- 5848
Secondary Backing	5 oz per SY Acrylic	D- 5848
Total Carpet Weight	70 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	428° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Boston University (MA)
University of California, Berkeley (CA)
Cornell University (NY)
Dartmouth College (NH)
Davidson College (NC)
Hamilton College (NY)
Hobart and William Smith Colleges (NY)
College of the Holy Cross (MA)
Keene State College (NH)
Lafayette College (PA)
Lock Haven University (PA)
University of Maine (ME)
University of Massachusetts - Lowell (MA)
Miami University (OH)
University of New Hampshire (NH)
Northeastern University (MA)
Ohio University (OH)
University of Pennsylvania (PA)
Princeton University (NJ)
Providence College (RI)
Quinnipiac University (CT)
Rutgers University (NJ)
University of Vermont (VT)
Yale University (CT)

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ASTROTURF® 12 SYSTEM 90

AstroTurf® has a long history of innovation and leadership in the hockey world. It's the brand that changed the sport. And it's the sport that has shaped AstroTurf's history. Our specialized knitting equipment and manufacturing history has kept AstroTurf at the very top of the hockey world's elite surfacing. AstroTurf has been used at every Final Four Tournament since the game left natural grass, and countless international events and Olympics have been hosted on AstroTurf. Today AstroTurf is an FIH Preferred Producer and a vertically integrated manufacturer and installer.

AstroTurf 12 is the classic field hockey system for high level skill development and competition. The knitted nylon fabric construction makes for a fast, smooth, non-directional and durable surface.

The AstroTurf 12 turf system must be installed over a shock absorbing underlayment. A good pad option is a 3/8" PVC Nitrile Foam Pad.

"I love my nylon knit from AstroTurf. It is the best field hockey product in the world. Hands Down! I had it on my last field and I want it on my next."

Missy Meharg
Head Field Hockey Coach
University of Maryland
(AstroTurf 12 System 90)

ASTROTURF 12 SYSTEM 90

AstroTurf 12 is the classic field hockey system for high level skill development and competition.



- Knitted fiber construction for a monolithic panel. No tufts to pull out. Every fiber is knotted to the next
- Nylon fibers are hydrophilic, meaning they absorb water, which makes the system ideal for wet play
- Installed over a 3/8" PVC Nitrile Foam Pad
- Full glue-down required
- Non-filled


The Ohio State University - Columbus, OH


University of Maryland - College Park, MD


Penn State University - State College, PA


University of Louisville - Louisville, KY

ASTROTURF 12 SYSTEM 90

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Texturized Nylon Monofilament	N/A
Yarn Denier	5,200	D-1577
Yarn Thickness	110 microns	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	0.5"	D-5823
Standard Field Color	Stadium Green	None
Construction	Knitted	None
Turf Density	4,320 oz/yd^3	HUD 44d
Gauge:	N/A	D-5793
Primary Backing	5 oz per SY Polyester	D- 5848
Secondary Backing	5 oz per SY Acrylic	D- 5848
Total Carpet Weight	70 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	428° F	D-789
Flammability	TEST PASSED	D-2859

Some of our System 90 installations include:

Boston College (MA)
Brown University (RI)
University of California, Berkeley (CA)
Colgate University (NY)
Columbia University (NY)
University of Connecticut (CT)
Duke University (NC)
Field Hockey National Training Center (VA)
University of Iowa (IA)
Kent State University (OH)
University of Louisville (KY)
University of Maryland (MD)
University of Massachusetts - Amherst (MA)
Michigan State University (MI)
Northwestern University (IL)
The Ohio State University (OH)
Old Dominion University (VA)
Penn State University (PA)
University of Richmond (VA)
Stanford University (CA)
Temple University (PA)
University of Toronto (ON)
Ursinus College (PA)
University of Virginia (VA)
Wake Forest University (NC)
College of William and Mary (VA)

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	8,000 Slit Film, 6,000 / 8 Rootzone	D-1577
Yarn Thickness	100 microns	D-3218
Pile Weight	120 oz per SY	D- 5848
Finished Pile Height	1.75"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	2,469 oz/yd^3	HUD 44d
Gauge:	3/16" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	121.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 100'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 11 lbs	D-1335
Grab Tear Strength (Average)	> 245 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	2° F	D-789
Flammability	TEST PASSED	D-2859

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	8,000 Slit Film, 6,000 / 8 Rootzone	D-1577
Yarn Thickness	100 microns	D-3218
Pile Weight	95 oz per SY	D- 5848
Finished Pile Height	1.75"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	1,954 oz/yd^3	HUD 44d
Gauge:	3/16" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	121.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 100'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 11 lbs	D-1335
Grab Tear Strength (Average)	> 245 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	2° F	D-789
Flammability	TEST PASSED	D-2859

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AstroTurf Woven Rootzone

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Diamond Monofilament / Texturized Monofilament	N/A
Yarn Denier	8,000 (Diamond), 4,000 (Texturized)	D-1577
Yarn Thickness	365 microns	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	1.75"	D-5823
Standard Field Color	Field green	None
Construction	Woven	None
Turf Density	900 oz/yd^3	HUD 44d
Gauge:	N/A	D-5793
Primary Backing	22 oz PP	D- 5848
Secondary Backing	5oz PVV coating	N/A
Total Carpet Weight	87 oz per SY (+/- 5%)	D- 5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	N/A	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 12 lbs	ISO 4919
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 18.7 lbs	D-2256
Yarn Melting Point	262° F	D-789
Flammability	TEST PASSED	D-2859

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AstroTurf Woven

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Diamond Monofilament	N/A
Yarn Denier	10,800 (diamond)	D-1577
Yarn Thickness	365 microns	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	1.75"	D-5823
Standard Field Color	Field green	None
Construction	Woven	None
Turf Density	900 oz/yd^3	HUD 44d
Gauge:	N/A	D-5793
Primary Backing	22 oz PP	D- 5848
Secondary Backing	5oz PVV coating	N/A
Total Carpet Weight	87 oz per SY (+/- 5%)	D- 5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	N/A	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 12 lbs	ISO 4919
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 18.7 lbs	D-2256
Yarn Melting Point	262° F	D-789
Flammability	TEST PASSED	D-2859

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AstroTurf LigaTurf Cross GT zero

SOCCER

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	PE-Diamond Monofilament	N/A
Yarn Denier	10,800 (diamond)	D-1577
Yarn Thickness	365 microns	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	Field / Lime	None
Construction	Tufted	None
Turf Density	900 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	N/A
Total Carpet Weight	86.7oz per SY (+/- 5%)	D- 5848
Turf Roll Dimensions	13' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 19" +/- per hour	F-1551
Tuft Bind	> 8.9 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 11.2 lbs	D-2256
Yarn Melting Point	260° F	D-789
Flammability	TEST PASSED	D-2859

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AstroTurf LigaTurf Legend Pro 240

SOCCER

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	PE-Diamond Monofilament	N/A
Yarn Denier	10,800 (diamond)	D-1577
Yarn Thickness	365 microns	D-3218
Pile Weight	30 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	Field / Lime	None
Construction	Tufted	None
Turf Density	900 oz/yd^3	HUD 44d
Gauge:	3/4"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	N/A
Total Carpet Weight	56.7oz per SY (+/- 5%)	D- 5848
Turf Roll Dimensions	13' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 19" +/- per hour	F-1551
Tuft Bind	> 11 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 11.2 lbs	D-2256
Yarn Melting Point	260° F	D-789
Flammability	TEST PASSED	D-2859

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AstroTurf LigaTurf Legend Pro 260

SOCCER

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	PE-Diamond Monofilament	N/A
Yarn Denier	10,800 (diamond)	D-1577
Yarn Thickness	365 microns	D-3218
Pile Weight	42 oz per SY	D- 5848
Finished Pile Height	2.5"	D-5823
Standard Field Color	Field / Lime	None
Construction	Tufted	None
Turf Density	900 oz/yd^3	HUD 44d
Gauge:	3/4"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	N/A
Total Carpet Weight	68.7oz per SY (+/- 5%)	D- 5848
Turf Roll Dimensions	13' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 19" +/- per hour	F-1551
Tuft Bind	> 11 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 11.2 lbs	D-2256
Yarn Melting Point	260° F	D-789
Flammability	TEST PASSED	D-2859

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LigaTurf



Rootzone 3D3 BLEND 60

AstroTurf's RootZone® 3D3 Blend features the exciting new TRIONIC PLUS monofilament fiber. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

Authentic Nylon RootZone – The RootZone is a system of texturized nylon fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With three unique fibers – the RootZone, Trionic Plus monofilament fibers and ultra-durable slit film fibers— the RootZone 3D3 Trionic Blend offers exceptional durability, player protection and aesthetics.

"We've been thrilled with our new Trionic field from AstroTurf. It's allowed us to utilize Memorial for football, soccer, lacrosse and even PE classes, no matter what the weather has had in store. And with the Trionic field we have the confidence that it'll hold up to the heavy usage we need for years to come."

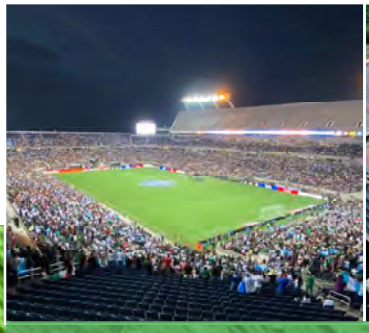
Ed Ploof, Athletic Director, Bellarmine Prep (Tacoma, WA)





*Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
- Statblock Anti-static component provides up to a 17x reduction in static levels
- Extremely durable slit film fibers
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory


Camping World Stadium - Orlando, FL



Liberty University - Lynchburg, VA


De La Salle High School - Concord, CA



Taylor University - Upland, IN

ROOTZONE 3D3 BLEND 60

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and Nylon RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1440 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	86.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Anne Arundel County Schools (MD)
Appleton Area School District (WI)
Arizona Cardinals Practice Field (AZ)
Austin ISD (TX)
Bellarmine Prep (WA)
Beverly Hills Unified School District (CA)
Boston College (MA)
Brother Rice High School (MI)
Cheyenne Mountain School District 12 (CO)
Colorado Rapids Youth Soccer Academy (CO)
Corpus Christi ISD (TX)
Davenport University (MI)
De La Salle High School (CA)
University of Delaware (DE)
DePauw University (IN)
East Rochester High School (NY)
El Paso Gridley High School (IL)
Evangel University (MO)
Fore Kicks Soccer Complexes (MA)
Global Premier Soccer (NH)
Grand Canyon University (AZ)
Greensboro College (NC)
Los Angeles Unified School District (CA)
Liberty University (VA)
Marin Catholic High School (CA)
The McCallie School (TN)
Mississippi State University (MS)
North Broward Prep (FL)
Oconee County Schools (GA)
The Ohio State University (OH)
University of Oklahoma (OK)
Paramus Catholic High School (NJ)
Penn State University (PA)
Ringgold High School (PA)
Saint John Bosco High School (CA)
Salina High School (KS)
Sam Houston State University (TX)
Silverlakes Equestrian & Sports Park (CA)
Texas A&M University (TX)
Tri-Town High School (ME)
Tulane University (LA)
University Liggett School (MI)
Utah State University (UT)
Viera Regional Park (FL)
The Village School (TX)

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AstroTurf LigaTurf RS

SOCCER

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	PE-Diamond Monofilament	N/A
Yarn Denier	10,800 (diamond)	D-1577
Yarn Thickness	365 microns	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	2.5"	D-5823
Standard Field Color	Field / Lime	None
Construction	Tufted	None
Turf Density	900 oz/yd^3	HUD 44d
Gauge:	3/4"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	N/A
Total Carpet Weight	86.7oz per SY (+/- 5%)	D- 5848
Turf Roll Dimensions	13' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 19" +/- per hour	F-1551
Tuft Bind	> 8.9 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 11.2 lbs	D-2256
Yarn Melting Point	260° F	D-789
Flammability	TEST PASSED	D-2859

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PGPE 5 mm



AstroTurf SINCE 1965
PRODUCT FACT SHEET

The PGPE system is a dense slit film system supported by a RootZone. This system can be used with or without infill. PGPE is designed for extremely heavy wear, including confined indoor use, pushing sleds, etc.

A shock absorbing pad is required. It may be installed over an existing E-Layer® or other shockpad, or it can be provided from the factory with an attached 5 mm foam polyurethane pad ("PGPE 5 mm").

PGPE and PGPE 5mm systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction and installation.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable slit film face fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- RootZone infill stabilization and fiber support system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- Shock absorbing pad required. Available with a 5 mm attached polyurethane pad (PGPE 5 mm)

PGPE & PGPE 5 mm

PGPE and PGPE 5mm systems are dense turf systems and can be used with or without infill.



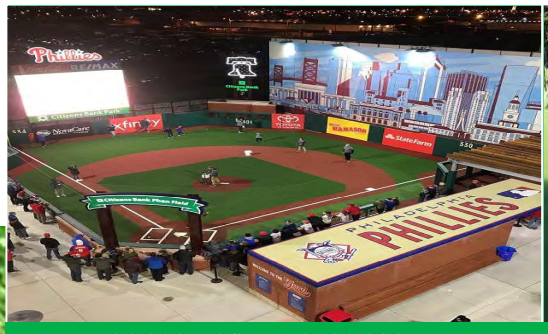
PGPE



PGPE 5mm



Colored options produced with PE thatch.



Philadelphia Phillies Yard – Philadelphia, PA



Miss Porter's School – Farmington, CT

PGPE 5 mm

FOOTBALL • SOCCER • LACROSSE • FIELD HOCKEY • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film and PE RootZone	N/A
Yarn Denier	15,200 (10,000 per end for Slit Film, 8 ends/750 denier per end for RootZone)	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	58 oz per SY	D- 5848
Finished Pile Height	0.75"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	2,784 oz/yd^3	HUD 44d
Gauge:	3/16"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	56 oz per SY Polyurethane foam (PGPN 5 mm)	D- 5848
Total Carpet Weight	120.7 oz per SY (PGPN 5 mm)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 100'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Alma Bryant High School (AL)
Athens Academy (GA)
Brigham Young University (UT)
Diamond Indoor Soccer (NC)
ESPN College GameDay Set
Facility Suburban Sports Training Center (PA)
Gilmer County High School (GA)
City of Lexington (KY)
Liberty University (VA)
Miss Porter's School (CT)
Mount St. Joseph High School (MD)
Spooky Nook (PA)
St. Lawrence Elementary School (CA)
St. Monica High School (CA)
Houston Texans Training Turf (TX)
Texas A&M University (TX)
University of North Carolina Wilmington Indoor Baseball (NC)

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PGPE



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A shock absorbing pad is required. It may be installed over an existing E-Layer® or other shockpad, or it can be provided from the factory with an attached 5 mm foam polyurethane pad ("PGPE 5 mm").

PGPE and PGPE 5mm systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction and installation.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable slit film face fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- RootZone infill stabilization and fiber support system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- Shock absorbing pad required. Available with a 5 mm attached polyurethane pad (PGPE 5 mm)

PGPE & PGPE 5 mm

PGPE and PGPE 5mm systems are dense turf systems and can be used with or without infill.



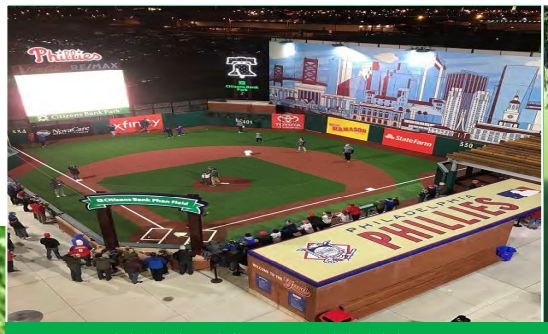
PGPE



PGPE 5mm



Colored options produced with PE thatch.



Philadelphia Phillies Yard – Philadelphia, PA



Miss Porter's School – Farmington, CT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film and PE RootZone	N/A
Yarn Denier	15,200 (10,000 per end for Slit Film, 8 ends/750 denier per end for RootZone)	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	58 oz per SY	D- 5848
Finished Pile Height	0.75"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	2,784 oz/yd^3	HUD 44d
Gauge:	3/16"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane (PGPN)	D- 5848
Total Carpet Weight	84.7.7 oz per SY (PGPN)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 100'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Alma Bryant High School (AL)
Athens Academy (GA)
Brigham Young University (UT)
Diamond Indoor Soccer (NC)
ESPN College GameDay Set
Facility Suburban Sports Training Center (PA)
Gilmer County High School (GA)
City of Lexington (KY)
Liberty University (VA)
Miss Porter's School (CT)
Mount St. Joseph High School (MD)
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St. Lawrence Elementary School (CA)
St. Monica High School (CA)
Houston Texans Training Turf (TX)
Texas A&M University (TX)
University of North Carolina Wilmington Indoor Baseball (NC)

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PGPN 5 mm



AstroTurf SINCE 1965
PRODUCT FACT SHEET

The PGPN system is a dense slit film system supported by a RootZone. This system can be used with or without infill. PGPN is designed for extremely heavy wear, including confined indoor use, pushing sleds, etc.

A shock absorbing pad is required. It may be installed over an existing E-Layer® or other shockpad, or it can be provided from the factory with an attached 5 mm foam polyurethane pad ("PGPN 5 mm").

PGPN and PGPN 5mm systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction and installation.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable slit film face fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- RootZone infill stabilization and fiber support system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- Shock absorbing pad required. Available with a 5 mm attached polyurethane pad (PGPN 5 mm)

PGPN & PGPN 5 mm

PGPN and PGPN 5mm systems are dense turf systems and can be used with or without infill.



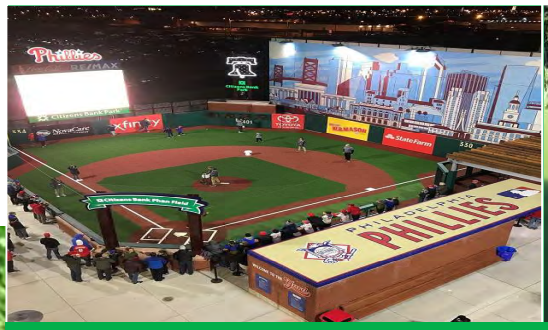
PGPN



PGPN 5mm



Colored options produced with PE thatch.



Philadelphia Phillies Yard – Philadelphia, PA



Miss Porter's School – Farmington, CT

PGPN 5 mm

FOOTBALL • SOCCER • LACROSSE • FIELD HOCKEY • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film and Nylon RootZone	N/A
Yarn Denier	14,000 (8,000 per end for Slit Film, 8 ends/750 denier per end for RootZone)	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	58 oz per SY	D- 5848
Finished Pile Height	0.75"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	2,784 oz/yd^3	HUD 44d
Gauge:	3/16"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	56 oz per SY Polyurethane foam (PGPN 5 mm)	D- 5848
Total Carpet Weight	120.7 oz per SY (PGPN 5 mm)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 100'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Alma Bryant High School (AL)
Athens Academy (GA)
Brigham Young University (UT)
Diamond Indoor Soccer (NC)
ESPN College GameDay Set
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PGPN



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A shock absorbing pad is required. It may be installed over an existing E-Layer® or other shockpad, or it can be provided from the factory with an attached 5 mm foam polyurethane pad ("PGPN 5 mm").

PGPN and PGPN 5mm systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction and installation.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable slit film face fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- RootZone infill stabilization and fiber support system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- Shock absorbing pad required. Available with a 5 mm attached polyurethane pad (PGPN 5 mm)

PGPN & PGPN 5 mm

PGPN and PGPN 5mm systems are dense turf systems and can be used with or without infill.



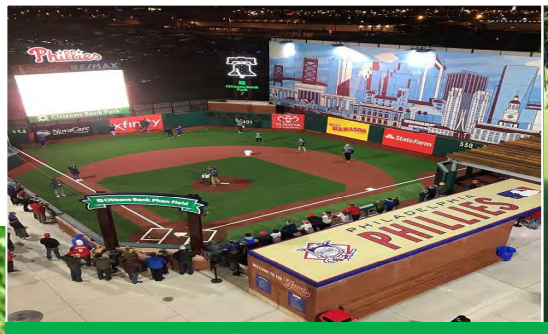
PGPN



PGPN 5mm



Colored options produced with PE thatch.



Philadelphia Phillies Yard – Philadelphia, PA



Miss Porter's School – Farmington, CT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film and Nylon RootZone	N/A
Yarn Denier	14,000 (8,000 per end for Slit Film, 8 ends/750 denier per end for RootZone)	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	58 oz per SY	D- 5848
Finished Pile Height	0.75"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	2,784 oz/yd^3	HUD 44d
Gauge:	3/16"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane (PGPN)	D- 5848
Total Carpet Weight	84.7 oz per SY (PGPN)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 100'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Alma Bryant High School (AL)
Athens Academy (GA)
Brigham Young University (UT)
Diamond Indoor Soccer (NC)
ESPN College GameDay Set
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Miss Porter's School (CT)
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POLIGRAS® *PLATINUM*

AstroTurf® has a long history of innovation and leadership in the hockey world. It's the brand that changed the sport. And it's the sport that has shaped AstroTurf's history. Our specialized manufacturing equipment and history has kept AstroTurf at the very top of the hockey world's elite surfacing. Today AstroTurf is an FIH Preferred Producer and a vertically integrated manufacturer and installer.

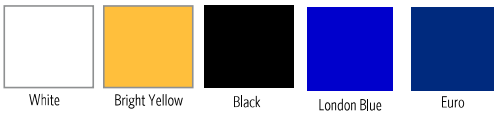
By partnering with our sister company Polytan, we are now able to bring our American clients the Poligras Platinum system -- an elite tufted polyethylene turf surface that has been proven at the highest global levels of competition and commands an exceptional international reputation.

- Tufted fabric construction
- Soft polyethylene fibers
- Shockpad required
- Full glue-down required
- Non-filled

POLIGRAS® PLATINUM

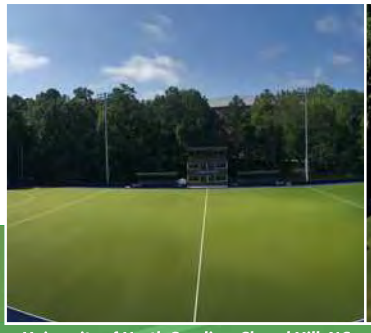
An elite tufted polyethylene turf surface that has been proven at the highest global levels of competition.





"We love our Poligras field from AstroTurf. It plays great. Just what we wanted. "

Brandi Kist
Head Coach
Queens University of Charlotte


University of North Carolina, Chapel Hill, NC


Mount Holyoke College - South Hadley, MA


University of Michigan - Ann Arbor, MI


Middlebury College - Middlebury, VT

POLIGRAS® PLATINUM

FIELD HOCKEY

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Texturized Polyethylene Monofilament	N/A
Yarn Denier	5,400	D-1577
Yarn Thickness	110 microns	D-3218
Pile Weight	48 oz per SY	D- 5848
Finished Pile Height	.43"	D-5823
Standard Field Color	Olive Green	None
Construction	Tufted	None
Turf Density	4,018 oz/yd^3	HUD 44d
Gauge:	3/16"	D-5793
Primary Backing	8 oz./sy Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz/sy. Polyurethane	D- 5848
Total Carpet Weight	76 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Bucknell University (PA)
University of Calgary (AB)
Harvard University (MA)
Messiah College (PA)
University of Michigan (MI)
University of New England (ME)
University of North Carolina (NC)
U.S. Olympic Training Center - Chula Vista (CA)
Queens University of Charlotte (NC)
Villanova University (PA)

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PUREGRASS 8mm



The PureGrass system is a dense, all-nylon system supported by a RootZone. This system can be used with or without infill. PureGrass is designed for extremely heavy wear, including confined indoor use, pushing sleds, etc.

A shock absorbing pad is required. It may be installed over an existing E-Layer® or other shockpad, or it can be provided from the factory with an attached 8 mm foam polyurethane pad ("PureGrass 8mm").

PureGrass and PureGrass 8mm systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction and installation.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable, non-abrasive nylon face fibers for resistance to wear
- RootZone infill stabilization and fiber support system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- Shock absorbing pad required. Available with an 8 mm attached polyurethane pad (PureGrass 8mm)

PUREGRASS & PUREGRASS 8mm

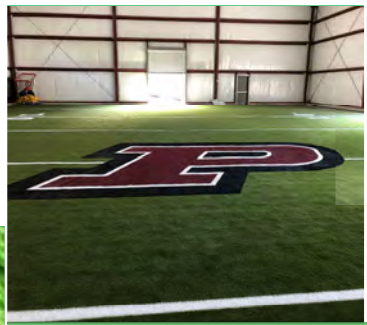
PureGrass and PureGrass 8mm systems are dense turf systems and can be used with or without infill.



PUREGRASS



PUREGRASS 8mm



Pikeville High School - Pikeville, KY



St. Louis Bandits - St. Charles, MO



University of Northern Iowa - Cedar Falls, IA



Bemidji State University - Bemidji, MN

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Nylon Monofilament and Nylon RootZone	N/A
Yarn Denier	8,400	D-1577
Yarn Thickness	100 microns	D-3218
Pile Weight	56 oz per SY	D- 5848
Finished Pile Height	1.25"	D-5823
Standard Field Color	Turf Green	None
Construction	Tufted	None
Turf Density	1,613 oz/yd^3	HUD 44d
Gauge:	3/16"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	89 oz per SY Polyurethane foam (PureGrass 8 mm)	D- 5848
Total Carpet Weight	151.7 oz per SY (PureGrass 8 mm)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 100'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	428° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Athletic Republic (CA)
Bemidji State University (MN)
Binghamton High School (NY)
Brooklyn Community Arts & Media High School (NY)
Cathedral Mary Our Queen (MD)
Dartmouth College (NH)
Deerfield Academy (ME)
East Tennessee State University (TN)
Escondido Sports Center (CA)
Florida State University (FL)
Franklin Pierce University (NH)
George A. Leoni Complex (IL)
Grand Island Community Center (NE)
Harding County Board of Education (TN)
Hudson County (NJ)
Waterfront Park (NY)
International School of Beijing (China)
James Monroe High School (NY)
Kansas State University (KS)
University of Kansas (KS)
Lackland Airforce Base (TX)
Laurel Dell Elementary School (CA)
Macombs Dam Park (NY)
McKinney Boyd High School (TX)
McKinney High School (TX)
Metropolitan High School (NY)
University of Nebraska (NE)
New York City Parks and Recreation (NY)
City of Newark (NJ)
Oregon State University (OR)
Penn State University – Abington (PA)
Purdue University (IN)
ROC Center (PA)
Rockaway Beach Park (NY)
University of South Dakota (SD)
Spooky Nook (PA)
UNC Wilmington (NC)
United Soccer Centre (ON)
William Penn Charter High School (PA)

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PUREGRASS



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A shock absorbing pad is required. It may be installed over an existing E-Layer® or other shockpad, or it can be provided from the factory with an attached 8 mm foam polyurethane pad ("PureGrass 8mm").

PureGrass and PureGrass 8mm systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction and installation.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable, non-abrasive nylon face fibers for resistance to wear
- RootZone infill stabilization and fiber support system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- Shock absorbing pad required. Available with an 8 mm attached polyurethane pad (PureGrass 8mm)

PUREGRASS & PUREGRASS 8mm

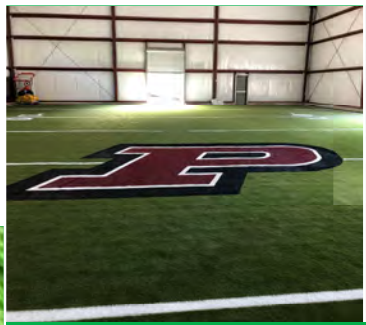
PureGrass and PureGrass 8mm systems are dense turf systems and can be used with or without infill.



PUREGRASS



PUREGRASS 8mm



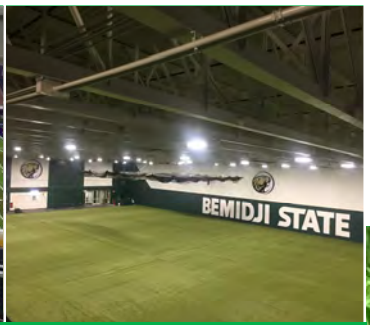
Pikeville High School - Pikeville, KY



St. Louis Bandits - St. Charles, MO



University of Northern Iowa - Cedar Falls, IA



Bemidji State University - Bemidji, MN

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Nylon Monofilament and Nylon RootZone	N/A
Yarn Denier	8,400	D-1577
Yarn Thickness	100 microns	D-3218
Pile Weight	56 oz per SY	D- 5848
Finished Pile Height	1.25"	D-5823
Standard Field Color	Turf Green	None
Construction	Tufted	None
Turf Density	1,613 oz/yd^3	HUD 44d
Gauge:	3/16"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane (PureGrass)	D- 5848
Total Carpet Weight	82.7 oz per SY (PureGrass)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 100'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	428° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Athletic Republic (CA)
Bemidji State University (MN)
Binghamton High School (NY)
Brooklyn Community Arts & Media High School (NY)
Cathedral Mary Our Queen (MD)
Dartmouth College (NH)
Deerfield Academy (ME)
East Tennessee State University (TN)
Escondido Sports Center (CA)
Florida State University (FL)
Franklin Pierce University (NH)
George A. Leoni Complex (IL)
Grand Island Community Center (NE)
Harding County Board of Education (TN)
Hudson County (NJ)
Waterfront Park (NY)
International School of Beijing (China)
James Monroe High School (NY)
Kansas State University (KS)
University of Kansas (KS)
Lackland Airforce Base (TX)
Laurel Dell Elementary School (CA)
Macombs Dam Park (NY)
McKinney Boyd High School (TX)
McKinney High School (TX)
Metropolitan High School (NY)
University of Nebraska (NE)
New York City Parks and Recreation (NY)
City of Newark (NJ)
Oregon State University (OR)
Penn State University – Abington (PA)
Purdue University (IN)
ROC Center (PA)
Rockaway Beach Park (NY)
University of South Dakota (SD)
Spooky Nook (PA)
UNC Wilmington (NC)
United Soccer Centre (ON)
William Penn Charter High School (PA)

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Rhino
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RHINO BLEND 42

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Rhino Series Blend products combine high quality Legend monofilament fibers and slit film fibers for resistance to wear and aesthetics for your field.

Rhino Series fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Legend-shaped monofilament fibers that refract light naturally for a grass-like appearance
- Exceptionally durable slit film fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Multi-layer woven primary backing
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RHINO BLEND

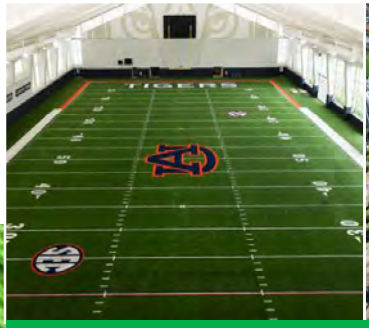
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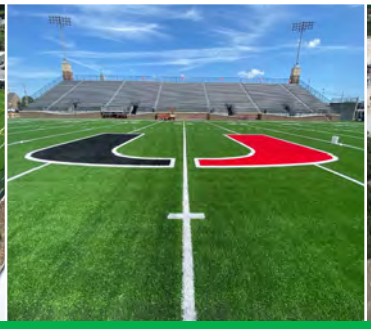


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Faith Lutheran High School - Las Vegas, NV


Tulsa Union High School - Tulsa, OK


Bee Creek Sports Complex – Spicewood, TX

RHINO BLEND 42

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Legend Monofilament and Polyethylene Slit Film	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end for Mono, 10,000 denier per end for Slit Film)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film	D-3218
Pile Weight	42 oz per SY	D- 5848
Finished Pile Height	2.25"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	672 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	68.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Rhino Blend installations include:

University of Akron (OH)
Albion College (MI)
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Artesia School District (NM)
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Baldwin Wallace College (OH)
Baylor School (TN)
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RHINO BLEND

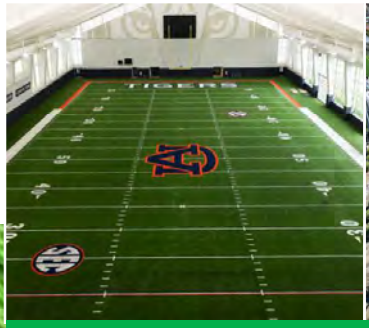
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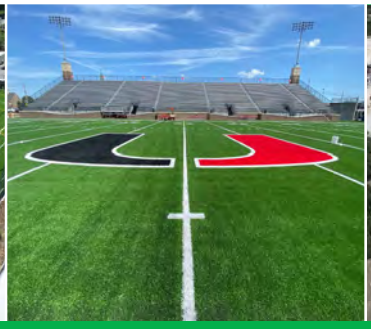


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RHINO BLEND 42

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Legend Monofilament and Polyethylene Slit Film	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end for Mono, 10,000 denier per end for Slit Film)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film	D-3218
Pile Weight	42 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	756 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	68.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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Rhino AstroTurf



RHINO BLEND 46

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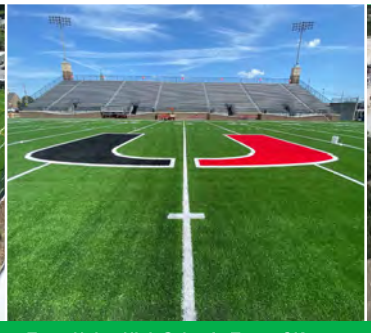


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Bee Creek Sports Complex – Spicewood, TX

RHINO BLEND 46

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Legend Monofilament and Polyethylene Slit Film	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end for Mono, 10,000 denier per end for Slit Film)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film	D-3218
Pile Weight	46 oz per SY	D- 5848
Finished Pile Height	2.25"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	736 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	72.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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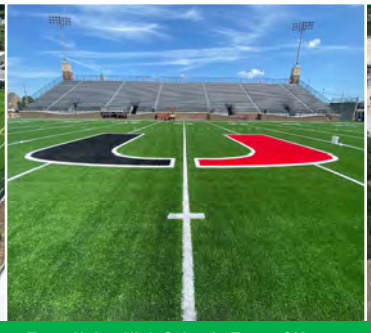


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RHINO BLEND 46

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Legend Monofilament and Polyethylene Slit Film	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end for Mono, 10,000 denier per end for Slit Film)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film	D-3218
Pile Weight	46 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	828 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	72.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
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Flammability	TEST PASSED	D-2859

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Rhino
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RHINO BLEND 48

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RHINO BLEND

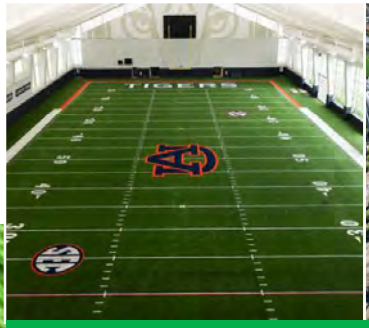
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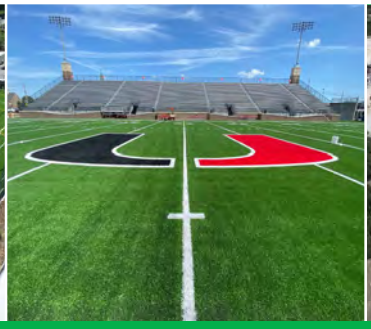


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Bee Creek Sports Complex – Spicewood, TX

RHINO BLEND 48

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Legend Monofilament and Polyethylene Slit Film	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end for Mono, 10,000 denier per end for Slit Film)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film	D-3218
Pile Weight	48 oz per SY	D- 5848
Finished Pile Height	2.25"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	768 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	74.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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RHINO BLEND

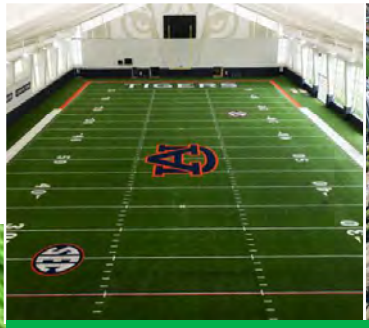
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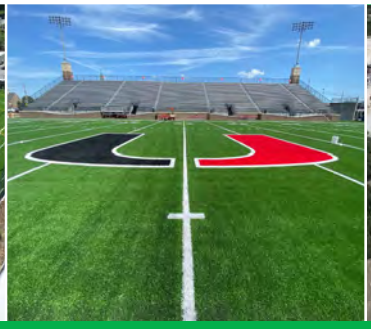


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RHINO BLEND 48

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Legend Monofilament and Polyethylene Slit Film	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end for Mono, 10,000 denier per end for Slit Film)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film	D-3218
Pile Weight	48 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	864 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	74.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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RHINO BLEND 50

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Legend Monofilament and Polyethylene Slit Film	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end for Mono, 10,000 denier per end for Slit Film)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film	D-3218
Pile Weight	50 oz per SY	D- 5848
Finished Pile Height	1.45"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	1,241 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	26 oz per SY Polyurethane	D- 5848
Total Carpet Weight	82.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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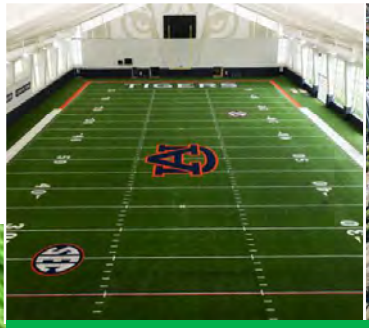
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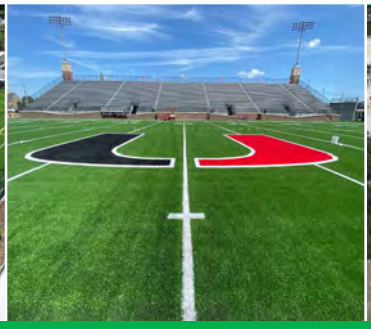


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RHINO BLEND 50

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Face Yarn Type	Legend Monofilament and Polyethylene Slit Film	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end for Mono, 10,000 denier per end for Slit Film)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film	D-3218
Pile Weight	50 oz per SY	D- 5848
Finished Pile Height	2.25"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	800 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	76.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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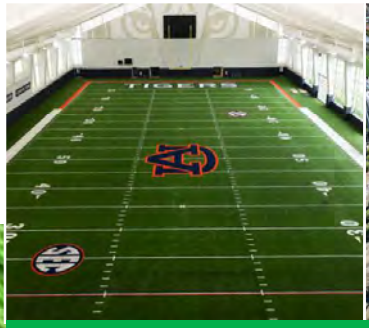
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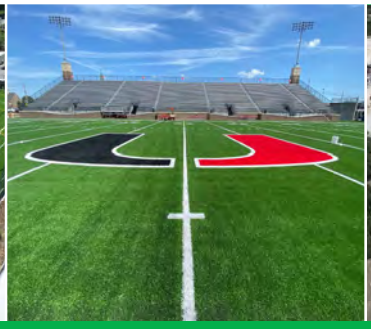


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Yarn Thickness	330 microns for Mono, 115 microns for Slit Film	D-3218
Pile Weight	50 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	900 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	76.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
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THE SURFACE SPECIALISTS

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www.astroturf.com @AstroTurfUSA

RHINO M 42

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Legend Monofilament	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end)	D-1577
Yarn Thickness	330 microns	D-3218
Pile Weight	42 oz per SY	D- 5848
Finished Pile Height	2.5"	D-5823
Standard Field Color	Field/Lime	None
Construction	Tufted	None
Turf Density	604.8 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	68.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Legend Monofilament	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end)	D-1577
Yarn Thickness	330 microns	D-3218
Pile Weight	42 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field/Lime	None
Construction	Tufted	None
Turf Density	756 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	68.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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RHINO M 46

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Legend Monofilament	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end)	D-1577
Yarn Thickness	330 microns	D-3218
Pile Weight	46 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field/Lime	None
Construction	Tufted	None
Turf Density	828 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	72.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Legend Monofilament	N/A
Yarn Denier	10,800 (6 ends, 1,800 denier per end)	D-1577
Yarn Thickness	330 microns	D-3218
Pile Weight	48 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field/Lime	None
Construction	Tufted	None
Turf Density	864 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	74.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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RHINO SF 34

AstroTurf's Rhino Series synthetic sports turf is a good choice for clients that want to increase the playing time and performance of their sports fields. The Rhino Series systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction, and installation.

The Rhino SF systems utilize top-notch slit film fibers for proven durability.

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- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
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University of Hawaii - Honolulu, HI



Warrior Run High School - Turbotville, PA


Robert L. Taylor Sportsfield - Sarasota, FL



Phoenixville Area High School - Phoenixville, PA

RHINO SF 34

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	34 oz per SY	D- 5848
Finished Pile Height	1"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	1,224 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	60.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Rhino SF installations include:

A.C Reynolds High School (NC)
Adrian College (MI)
Bailey Road Park (NC)
Battery Park City (NY)
Bethel Park High School (PA)
Boise State University (ID)
Boston College High School (MA)
Bryan Station High School (KY)
Calvary Christian High School (FL)
University of Central Florida (FL)
Central Michigan University (MI)
Chicago Park District (IL)
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University of Delaware (DE)
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Penn State University (PA)
Poteau High School (OK)
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Skyline High School (WA)
Steubenville High School (OH)
University of Tennessee (TN)
Toledo High School (OR)
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University of Wisconsin - Platteville (WI)
Wyandotte High School (KS)

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RHINO SF 34

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Robert L. Taylor Sportsfield - Sarasota, FL



Phoenixville Area High School - Phoenixville, PA

RHINO SF 34

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	34 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	612 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	60.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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Poteau High School (OK)
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RHINO SF 42

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RHINO SF 42

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	42 oz per SY	D- 5848
Finished Pile Height	2.5"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	604.8 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	68.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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RHINO SF 42

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	42 oz per SY	D- 5848
Finished Pile Height	2.25"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	672 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	68.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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DIAMOND SERIES



DIAMOND SERIES HR 42

AstroTurf's Diamond Series Home Run (HR) baseball system is a good choice for clients that want to increase the playing time and performance of their baseball fields. The HR system benefits from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, start to finish control over manufacturing, civil construction and installation.

The Rhino SF systems utilize top-notch slit film fibers for proven durability and good infill encapsulation.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable slit film fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory

Some of our installations include:

Campbell University (NC)
University of Louisiana at Lafayette (LA)
Southeastern Louisiana (LA)
Troy University (AL)

It's all about the bounce.

DIAMOND SERIES HR





"This product is no doubt a 5 star in every facet. I was extremely skeptical moving to an artificial surface, but all that was put to ease with the quality of the product and customer service."

Matt Riser, Head Coach, Southeastern Louisiana University – Hammond, LA

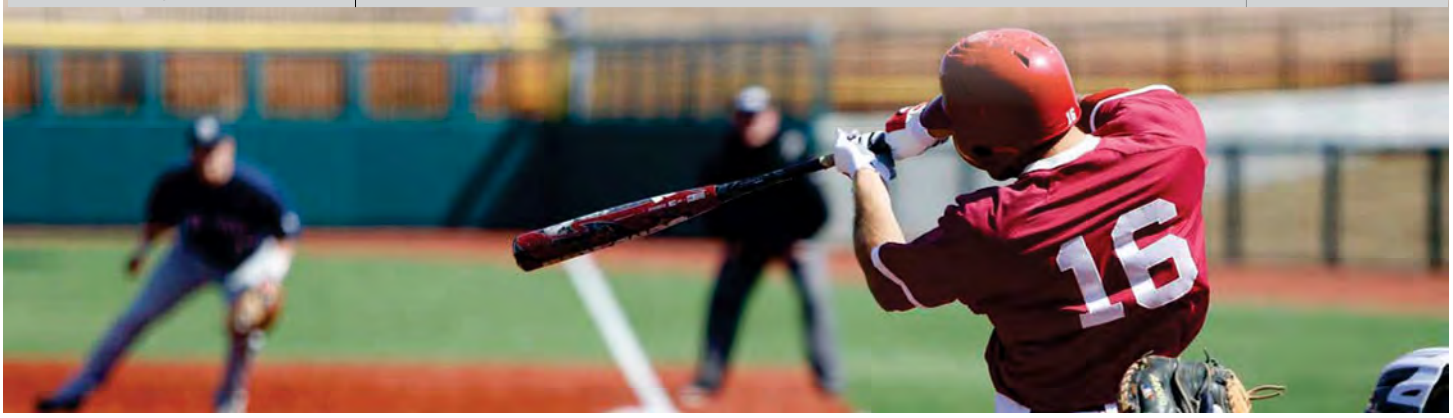


Campbell University - Buies Creek, NC

DIAMOND SERIES HR

BASEBALL

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	42 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	Field Green, Red Clay, Brown	None
Construction	Tufted	None
Turf Density	756 oz/yd^3	HUD 44d
Gauge	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	68.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859



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RHINO SF 42

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University of Hawaii - Honolulu, HI



Warrior Run High School - Turbotville, PA


Robert L. Taylor Sportsfield - Sarasota, FL



Phoenixville Area High School - Phoenixville, PA

RHINO SF 42

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	42 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	756 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	68.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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Robert L. Taylor Sportsfield - Sarasota, FL



Phoenixville Area High School - Phoenixville, PA

RHINO SF 46

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	46 oz per SY	D- 5848
Finished Pile Height	2.25"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	736 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	72.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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RHINO SF 46

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	46 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	828 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	72.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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RHINO SF 48

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RHINO SF 48

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	48 oz per SY	D- 5848
Finished Pile Height	2.25"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	768 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	74.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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RHINO SF 48

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	48 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	864 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	74.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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RHINO SF 50

AstroTurf's Rhino Series synthetic sports turf is a good choice for clients that want to increase the playing time and performance of their sports fields. The Rhino Series systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction, and installation.

The Rhino SF systems utilize top-notch slit film fibers for proven durability.

Rhino Series fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable slit film fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory

RHINO SF

The Rhino SF systems utilize top-notch slit film fibers for proven durability.





"The playability, consistency, durability, and aesthetics of the AstroTurf surfaces are the best we've seen and allows our players, at all levels, to practice and compete on the best surface in the world."

Ben Oliver, General Manager, Starfire Sports – Tukwila, WA



University of Hawaii - Honolulu, HI



Warrior Run High School - Turbotville, PA


Robert L. Taylor Sportsfield - Sarasota, FL



Phoenixville Area High School - Phoenixville, PA

RHINO SF 50

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	50 oz per SY	D- 5848
Finished Pile Height	2.25"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	800 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	76.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Rhino SF installations include:

A.C Reynolds High School (NC)
Adrian College (MI)
Bailey Road Park (NC)
Battery Park City (NY)
Bethel Park High School (PA)
Boise State University (ID)
Boston College High School (MA)
Bryan Station High School (KY)
Calvary Christian High School (FL)
University of Central Florida (FL)
Central Michigan University (MI)
Chicago Park District (IL)
Connellsville High School (PA)
University of Delaware (DE)
Dublin City Schools (OH)
Elkins High School (AR)
Escondido High School (CA)
Floyd Central High School (KY)
Frederick High School (MD)
Frank Loria Memorial Ballfield (WV)
Gahanna Lincoln High School (OH)
Grosse Pointe South High School (MI)
Gwinnett County Parks (GA)
Independence High School (KS)
Jennifer Ross Soccer Complex (GA)
Jonesboro High School (AR)
Lamphere High School (MI)
Lincoln Pius X High School (NE)
Linden High School (MI)
Madonna University (MI)
Mecklenburg County Parks (NC)
Monett High School (MO)
Mount De Sales Academy (MD)
New Dorp High School (NY)
New York City Parks (NY)
Ozark High School (AR)
Penn State University (PA)
Poteau High School (OK)
Schaumburg Park District (IL)
Skyline High School (WA)
Steubenville High School (OH)
University of Tennessee (TN)
Toledo High School (OR)
University Liggett School (MI)
West Texas A&M University (TX)
University of Wisconsin – Platteville (WI)
Wyandotte High School (KS)

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Rhino
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RHINO SF 50

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The Rhino SF systems utilize top-notch slit film fibers for proven durability.

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RHINO SF

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Robert L. Taylor Sportsfield - Sarasota, FL



Phoenixville Area High School - Phoenixville, PA

RHINO SF 50

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	50 oz per SY	D- 5848
Finished Pile Height	2"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	900 oz/yd^3	HUD 44d
Gauge:	1/2" Maximum	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	76.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Rhino SF installations include:

A.C Reynolds High School (NC)
Adrian College (MI)
Bailey Road Park (NC)
Battery Park City (NY)
Bethel Park High School (PA)
Boise State University (ID)
Boston College High School (MA)
Bryan Station High School (KY)
Calvary Christian High School (FL)
University of Central Florida (FL)
Central Michigan University (MI)
Chicago Park District (IL)
Connellsville High School (PA)
University of Delaware (DE)
Dublin City Schools (OH)
Elkins High School (AR)
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Floyd Central High School (KY)
Frederick High School (MD)
Frank Loria Memorial Ballfield (WV)
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Grosse Pointe South High School (MI)
Gwinnett County Parks (GA)
Independence High School (KS)
Jennifer Ross Soccer Complex (GA)
Jonesboro High School (AR)
Lamphere High School (MI)
Lincoln Pius X High School (NE)
Linden High School (MI)
Madonna University (MI)
Mecklenburg County Parks (NC)
Monett High School (MO)
Mount De Sales Academy (MD)
New Dorp High School (NY)
New York City Parks (NY)
Ozark High School (AR)
Penn State University (PA)
Poteau High School (OK)
Schaumburg Park District (IL)
Skyline High School (WA)
Steubenville High School (OH)
University of Tennessee (TN)
Toledo High School (OR)
University Liggett School (MI)
West Texas A&M University (TX)
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Wyandotte High School (KS)

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ROOTZONE



ROOTZONE 3D MONO 60 GT-B

AstroTurf's Rootzone 3D Mono GT-B integrates sustainable materials into its Premium Rootzone product. While still utilizing the revolutionary Rootzone and Trionic Plus, the RootZone 3D Mono GT-B is crafted using 11% of materials that are renewable and biobased. This not only helps in reducing environmental impact but also supports the global movement towards greener alternatives in industrial products .

Our proprietary Trionic Plus fiber offers unparalleled strength and longevity. This advanced fiber technology ensures that the turf maintains its appearance and functionality over time, even under heavy use, making it an excellent choice for sports fields, playgrounds, and commercial landscapes.

Safety and player comfort are paramount. The RootZone system, featuring a thatch layer, helps in reducing the impact on athletes, thus minimizing injuries. It also provides a more natural feel and better traction, enhancing the overall playing experience.

RootZone 3D Mono GT-B is designed for minimal maintenance, reducing the need for water, fertilizers, and pesticides. This leads to significant cost savings over the product's lifecycle and contributes to the reduction of environmental pollutants.





Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The first sports turf product line to incorporate Bio-based raw materials into its manufacturing process and receive USDA certification.

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 11%

ROOTZONE 3D MONO 60 GT-B

FOOTBALL ▪ SOCCER ▪ LACROSSE ▪ MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic PE/PA Co-Polymer Monofilament and Bio-Based PE RootZone	N/A
Yarn Denier	16,200 (6 ends/1800 denier per end Mono and 8 ends/675 denier per end Rootzone)	D-1577
Yarn Thickness	330 microns for Mono and 100 microns for RootZone	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	3-Color Trionic Plus	None
Construction	Tufted	None
Turf Density	1080 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	7.2 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	22 oz per SY Biobased Coating	D- 5848
Total Carpet Weight	89.2 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	258° F (Mono)	D-789
Flammability	TEST PASSED	D-2859

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 11%

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ROOTZONE



ROOTZONE 3D3 BLEND 52

AstroTurf's RootZone® 3D3 Blend now features the exciting new TRIONIC monofilament fiber as a standard feature. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability.

AstroTurf's RootZone 3D Series boasts the RootZone technology. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With three unique fibers – the RootZone, Trionic monofilament fibers and ultra-durable slit film fibers— the RootZone 3D3 Trionic Blend offers exceptional durability, player protection and aesthetics.

"We've been thrilled with our new Trionic field from AstroTurf. It's allowed us to utilize Memorial for football, soccer, lacrosse and even PE classes, no matter what the weather has had in store. And with the Trionic field we have the confidence that it'll hold up to the heavy usage we need for years to come."

Ed Ploof, Athletic Director, Bellarmine Prep (Tacoma, WA)

ROOTZONE 3D3 BLEND 52





Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Extremely durable slit film fibers
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest Soy enhanced technology that provides tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory


Boys' Latin School - Baltimore, MD


Oklahoma State University - Stillwater, OK


De La Salle High School - Concord, CA


Kansas State University - Manhattan, KS

ROOTZONE 3D3 BLEND 52

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and PE RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/700 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	936 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	22 oz per SY Soy Enhanced Coating	D- 5848
Total Carpet Weight	80.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Alamodome (TX)
Anne Arundel County Schools (MD)
Appleton Area School District (WI)
Arizona Cardinals Practice Field (AZ)
Austin ISD (TX)
Bellarmine Prep (WA)
Beverly Hills Unified School District (CA)
Boston College (MA)
Brother Rice High School (MI)
Cheyenne Mountain School District 12 (CO)
Colorado Rapids Youth Soccer Academy (CO)
Corpus Christi ISD (TX)
Davenport University (MI)
De La Salle High School (CA)
University of Delaware (DE)
DePauw University (IN)
East Rochester High School (NY)
El Paso Gridley High School (IL)
Evangel University (MO)
Fore Kicks Soccer Complexes (MA)
Global Premier Soccer (NH)
Grand Canyon University (AZ)
Greensboro College (NC)
Kansas State University (KS)
Los Angeles Unified School District (CA)
Liberty University (VA)
Marin Catholic High School (CA)
The McCallie School (TN)
Mississippi State University (MS)
North Broward Prep (FL)
Oconee County Schools (GA)
The Ohio State University (OH)
University of Oklahoma (OK)
Oklahoma State University (OK)
Paramus Catholic High School (NJ)
Penn State University (PA)
Ringgold High School (PA)
Saint John Bosco High School (CA)
Salina High School (KS)
Sam Houston State University (TX)
Silverlakes Equestrian & Sports Park (CA)
Texas A&M University (TX)
Tri-Town High School (ME)
Tulane University (LA)
University Liggett School (MI)
Utah State University (UT)
Viera Regional Park (FL)
The Village School (TX)

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ROOTZONE



ROOTZONE 3D3 BLEND 52

AstroTurf's RootZone® 3D3 Blend features the exciting new TRIONIC PLUS monofilament fiber. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

Authentic Nylon RootZone – The RootZone is a system of texturized nylon fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With three unique fibers – the RootZone, Trionic monofilament fibers and ultra-durable slit film fibers— the RootZone 3D3 Trionic Blend offers exceptional durability, player protection and aesthetics.

"We've been thrilled with our new Trionic field from AstroTurf. It's allowed us to utilize Memorial for football, soccer, lacrosse and even PE classes, no matter what the weather has had in store. And with the Trionic field we have the confidence that it'll hold up to the heavy usage we need for years to come."

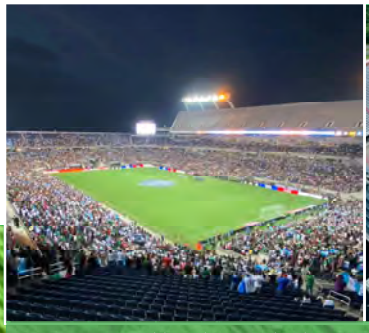
Ed Ploof, Athletic Director, Bellarmine Prep (Tacoma, WA)





*Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
- Statblock Anti-static component provides up to a 17x reduction in static levels
- Extremely durable slit film fibers
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory


Camping World Stadium - Orlando, FL



Liberty University - Lynchburg, VA


De La Salle High School - Concord, CA



Taylor University - Upland, IN

ROOTZONE 3D3 BLEND 52

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and Nylon RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	936 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	78.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

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Appleton Area School District (WI)
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Bellarmine Prep (WA)
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ROOTZONE



ROOTZONE 3D3 BLEND 52

AstroTurf's RootZone® 3D3 Blend features the exciting new TRIONIC PLUS monofilament fiber. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

AstroTurf's RootZone 3D Series boasts the RootZone technology. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With three unique fibers – the RootZone, Trionic Plus monofilament fibers and ultra-durable slit film fibers— the RootZone 3D3 Trionic Blend offers exceptional durability, player protection and aesthetics.

"We've been thrilled with our new Trionic field from AstroTurf. It's allowed us to utilize Memorial for football, soccer, lacrosse and even PE classes, no matter what the weather has had in store. And with the Trionic field we have the confidence that it'll hold up to the heavy usage we need for years to come."

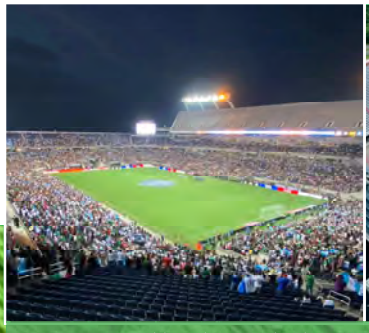
Ed Ploof, Athletic Director, Bellarmine Prep (Tacoma, WA)





*Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
- Statblock Anti-static component provides up to a 17x reduction in static levels
- Extremely durable slit film fibers
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory


Camping World Stadium - Orlando, FL



Liberty University - Lynchburg, VA


De La Salle High School - Concord, CA



Taylor University - Upland, IN

ROOTZONE 3D3 BLEND 52

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and PE RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	936 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	78.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Anne Arundel County Schools (MD)
Appleton Area School District (WI)
Arizona Cardinals Practice Field (AZ)
Austin ISD (TX)
Bellarmine Prep (WA)
Beverly Hills Unified School District (CA)
Boston College (MA)
Brother Rice High School (MI)
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Colorado Rapids Youth Soccer Academy (CO)
Corpus Christi ISD (TX)
Davenport University (MI)
De La Salle High School (CA)
University of Delaware (DE)
DePauw University (IN)
East Rochester High School (NY)
El Paso Gridley High School (IL)
Evangel University (MO)
Fore Kicks Soccer Complexes (MA)
Global Premier Soccer (NH)
Grand Canyon University (AZ)
Greensboro College (NC)
Los Angeles Unified School District (CA)
Liberty University (VA)
Marin Catholic High School (CA)
The McCallie School (TN)
Mississippi State University (MS)
North Broward Prep (FL)
Oconee County Schools (GA)
The Ohio State University (OH)
University of Oklahoma (OK)
Paramus Catholic High School (NJ)
Penn State University (PA)
Ringgold High School (PA)
Saint John Bosco High School (CA)
Salina High School (KS)
Sam Houston State University (TX)
Silverlakes Equestrian & Sports Park (CA)
Texas A&M University (TX)
Tri-Town High School (ME)
Tulane University (LA)
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Utah State University (UT)
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ROOTZONE



ROOTZONE 3D3 BLEND 52 GT-B

AstroTurf's Rootzone 3D3 Blend GT-B integrates sustainable materials into its Premium Rootzone product. While still utilizing the revolutionary Rootzone and Trionic Plus, the RootZone 3D3 Blend GT-B is crafted using 11% of materials that are renewable and biobased. This not only helps in reducing environmental impact but also supports the global movement towards greener alternatives in industrial products .

Our proprietary Trionic Plus fiber offers unparalleled strength and longevity. This advanced fiber technology ensures that the turf maintains its appearance and functionality over time, even under heavy use, making it an excellent choice for sports fields, playgrounds, and commercial landscapes.

Safety and player comfort are paramount. The RootZone system, featuring a thatch layer, helps in reducing the impact on athletes, thus minimizing injuries. It also provides a more natural feel and better traction, enhancing the overall playing experience.

RootZone 3D3 Blend GT-B is designed for minimal maintenance, reducing the need for water, fertilizers, and pesticides. This leads to significant cost savings over the product's lifecycle and contributes to the reduction of environmental pollutants.





Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Extremely durable slit film fibers
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The first sports turf to incorporate Bio-based raw materials into its manufacturing process and receive USDA certification.



USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 11%

ROOTZONE 3D3 BLEND 52 GT-B

FOOTBALL ▪ SOCCER ▪ LACROSSE ▪ MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and Bio-Based PE RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/700 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	936 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	7.2 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	22 oz per SY Biobased Coating	D- 5848
Total Carpet Weight	81.2 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 11%

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ROOTZONE



ROOTZONE 3D3 BLEND 60

AstroTurf's RootZone® 3D3 Blend features the exciting new TRIONIC PLUS monofilament fiber. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

Authentic Nylon RootZone – The RootZone is a system of texturized nylon fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With three unique fibers – the RootZone, Trionic monofilament fibers and ultra-durable slit film fibers— the RootZone 3D3 Trionic Blend offers exceptional durability, player protection and aesthetics.

"We've been thrilled with our new Trionic field from AstroTurf. It's allowed us to utilize Memorial for football, soccer, lacrosse and even PE classes, no matter what the weather has had in store. And with the Trionic field we have the confidence that it'll hold up to the heavy usage we need for years to come."

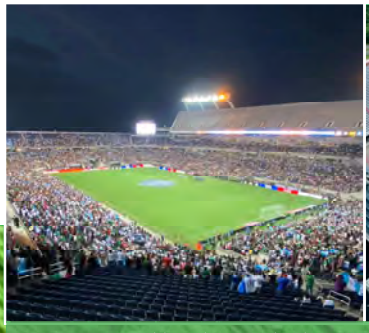
Ed Ploof, Athletic Director, Bellarmine Prep (Tacoma, WA)





*Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
- Statblock Anti-static component provides up to a 17x reduction in static levels
- Extremely durable slit film fibers
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Taylor University - Upland, IN

ROOTZONE 3D3 BLEND 60

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and Nylon RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1080 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	86.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

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ROOTZONE



ROOTZONE 3D3 BLEND 60

AstroTurf's RootZone® 3D3 Blend features the exciting new TRIONIC PLUS monofilament fiber. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

AstroTurf's RootZone 3D Series boasts the RootZone technology. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With three unique fibers – the RootZone, Trionic Plus monofilament fibers and ultra-durable slit film fibers— the RootZone 3D3 Trionic Blend offers exceptional durability, player protection and aesthetics.

"We've been thrilled with our new Trionic field from AstroTurf. It's allowed us to utilize Memorial for football, soccer, lacrosse and even PE classes, no matter what the weather has had in store. And with the Trionic field we have the confidence that it'll hold up to the heavy usage we need for years to come."

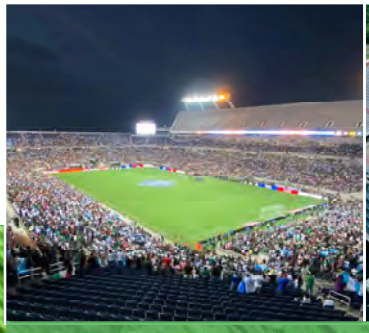
Ed Ploof, Athletic Director, Bellarmine Prep (Tacoma, WA)





*Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
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Camping World Stadium - Orlando, FL



Liberty University - Lynchburg, VA



De La Salle High School - Concord, CA



Taylor University - Upland, IN

ROOTZONE 3D3 BLEND 60

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and PE RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1080 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	86.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

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ROOTZONE



ROOTZONE 3D3 BLEND 60 GT-B

AstroTurf's Rootzone 3D3 Blend GT-B integrates sustainable materials into its Premium Rootzone product. While still utilizing the revolutionary Rootzone and Trionic Plus, the RootZone 3D3 Blend GT-B is crafted using 11% of materials that are renewable and biobased. This not only helps in reducing environmental impact but also supports the global movement towards greener alternatives in industrial products .

Our proprietary Trionic Plus fiber offers unparalleled strength and longevity. This advanced fiber technology ensures that the turf maintains its appearance and functionality over time, even under heavy use, making it an excellent choice for sports fields, playgrounds, and commercial landscapes.

Safety and player comfort are paramount. The RootZone system, featuring a thatch layer, helps in reducing the impact on athletes, thus minimizing injuries. It also provides a more natural feel and better traction, enhancing the overall playing experience.

RootZone 3D3 Blend GT-B is designed for minimal maintenance, reducing the need for water, fertilizers, and pesticides. This leads to significant cost savings over the product's lifecycle and contributes to the reduction of environmental pollutants.





Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Extremely durable slit film fibers
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The first sports turf product line to incorporate Bio-based raw materials into its manufacturing process and receive USDA certification.



USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 11%

ROOTZONE 3D3 BLEND 60 GT-B

FOOTBALL ▪ SOCCER ▪ LACROSSE ▪ MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and Bio-Based PE RootZone	N/A
Yarn Denier	16,200 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/675 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1080 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	7.2 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	22 oz per SY Biobased Coating	D- 5848
Total Carpet Weight	89.2 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 11%

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ROOTZONE



ROOTZONE 3D3 BLEND 75

AstroTurf's RootZone® 3D3 Blend features the exciting new TRIONIC PLUS monofilament fiber. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

AstroTurf's RootZone 3D Series boasts the RootZone technology. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With three unique fibers – the RootZone, Trionic Plus monofilament fibers and ultra-durable slit film fibers— the RootZone 3D3 Trionic Blend offers exceptional durability, player protection and aesthetics.

"We've been thrilled with our new Trionic field from AstroTurf. It's allowed us to utilize Memorial for football, soccer, lacrosse and even PE classes, no matter what the weather has had in store. And with the Trionic field we have the confidence that it'll hold up to the heavy usage we need for years to come."

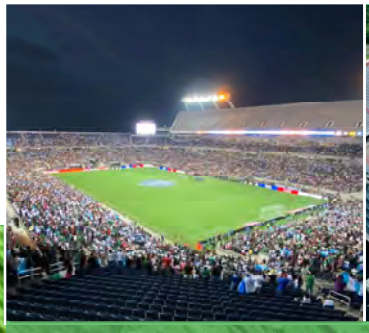
Ed Ploof, Athletic Director, Bellarmine Prep (Tacoma, WA)





*Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
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ROOTZONE 3D3 BLEND 75

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and PE RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	75 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1350 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	101.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Anne Arundel County Schools (MD)
Appleton Area School District (WI)
Arizona Cardinals Practice Field (AZ)
Austin ISD (TX)
Bellarmine Prep (WA)
Beverly Hills Unified School District (CA)
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ROOTZONE



ROOTZONE 3D3 BLEND 75

AstroTurf's RootZone® 3D3 Blend features the exciting new TRIONIC PLUS monofilament fiber. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

AstroTurf's RootZone 3D Series boasts the RootZone technology. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With three unique fibers – the RootZone, Trionic Plus monofilament fibers and ultra-durable slit film fibers— the RootZone 3D3 Trionic Blend offers exceptional durability, player protection and aesthetics.

"We've been thrilled with our new Trionic field from AstroTurf. It's allowed us to utilize Memorial for football, soccer, lacrosse and even PE classes, no matter what the weather has had in store. And with the Trionic field we have the confidence that it'll hold up to the heavy usage we need for years to come."

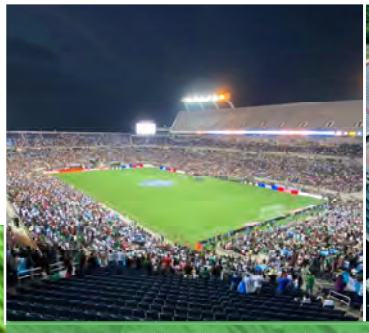
Ed Ploof, Athletic Director, Bellarmine Prep (Tacoma, WA)





*Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
- Statblock Anti-static component provides up to a 17x reduction in static levels
- Extremely durable slit film fibers
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory


Camping World Stadium - Orlando, FL



Liberty University - Lynchburg, VA


De La Salle High School - Concord, CA



Taylor University - Upland, IN

ROOTZONE 3D3 BLEND 75

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and PE RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	75 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1800 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	101.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

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ROOTZONE



ROOTZONE 3D3 BLEND 52

AstroTurf's RootZone® 3D3 Blend features the exciting new TRIONIC PLUS monofilament fiber. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

Authentic Nylon RootZone – The RootZone is a system of texturized nylon fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With three unique fibers – the RootZone, Trionic monofilament fibers and ultra-durable slit film fibers— the RootZone 3D3 Trionic Blend offers exceptional durability, player protection and aesthetics.

"We've been thrilled with our new Trionic field from AstroTurf. It's allowed us to utilize Memorial for football, soccer, lacrosse and even PE classes, no matter what the weather has had in store. And with the Trionic field we have the confidence that it'll hold up to the heavy usage we need for years to come."

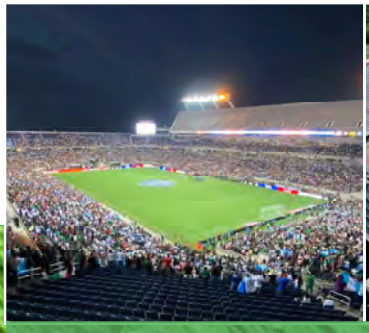
Ed Ploof, Athletic Director, Bellarmine Prep (Tacoma, WA)





*Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
- Statblock Anti-static component provides up to a 17x reduction in static levels
- Extremely durable slit film fibers
- RootZone infill stabilization system
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- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory



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De La Salle High School - Concord, CA



Taylor University - Upland, IN

ROOTZONE 3D3 BLEND 52

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and Nylon RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1248 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	78.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

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ROOTZONE



ROOTZONE 3D3 BLEND 52

AstroTurf's RootZone® 3D3 Blend features the exciting new TRIONIC PLUS monofilament fiber. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

AstroTurf's RootZone 3D Series boasts the RootZone technology. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With three unique fibers – the RootZone, Trionic Plus monofilament fibers and ultra-durable slit film fibers— the RootZone 3D3 Trionic Blend offers exceptional durability, player protection and aesthetics.

"We've been thrilled with our new Trionic field from AstroTurf. It's allowed us to utilize Memorial for football, soccer, lacrosse and even PE classes, no matter what the weather has had in store. And with the Trionic field we have the confidence that it'll hold up to the heavy usage we need for years to come."

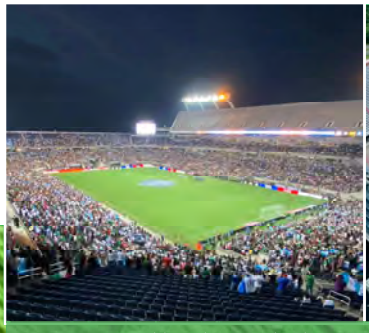
Ed Ploof, Athletic Director, Bellarmine Prep (Tacoma, WA)





*Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
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De La Salle High School - Concord, CA



Taylor University - Upland, IN

ROOTZONE 3D3 BLEND 52

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and PE RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1248 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	78.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

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ROOTZONE



ROOTZONE 3D3 BLEND 60

AstroTurf's RootZone® 3D3 Blend features the exciting new TRIONIC PLUS monofilament fiber. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

AstroTurf's RootZone 3D Series boasts the RootZone technology. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With three unique fibers – the RootZone, Trionic Plus monofilament fibers and ultra-durable slit film fibers— the RootZone 3D3 Trionic Blend offers exceptional durability, player protection and aesthetics.

"We've been thrilled with our new Trionic field from AstroTurf. It's allowed us to utilize Memorial for football, soccer, lacrosse and even PE classes, no matter what the weather has had in store. And with the Trionic field we have the confidence that it'll hold up to the heavy usage we need for years to come."

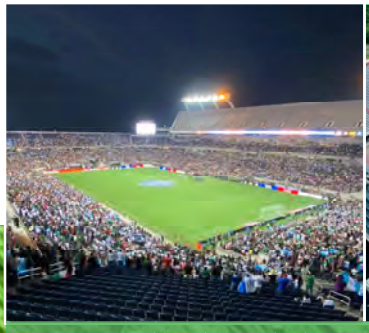
Ed Ploof, Athletic Director, Bellarmine Prep (Tacoma, WA)





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Taylor University - Upland, IN

ROOTZONE 3D3 BLEND 60

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FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and PE RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1440 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	86.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Trionic)	D-789
Flammability	TEST PASSED	D-2859

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Austin ISD (TX)
Bellarmine Prep (WA)
Beverly Hills Unified School District (CA)
Boston College (MA)
Brother Rice High School (MI)
Cheyenne Mountain School District 12 (CO)
Colorado Rapids Youth Soccer Academy (CO)
Corpus Christi ISD (TX)
Davenport University (MI)
De La Salle High School (CA)
University of Delaware (DE)
DePauw University (IN)
East Rochester High School (NY)
El Paso Gridley High School (IL)
Evangel University (MO)
Fore Kicks Soccer Complexes (MA)
Global Premier Soccer (NH)
Grand Canyon University (AZ)
Greensboro College (NC)
Los Angeles Unified School District (CA)
Liberty University (VA)
Marin Catholic High School (CA)
The McCallie School (TN)
Mississippi State University (MS)
North Broward Prep (FL)
Oconee County Schools (GA)
The Ohio State University (OH)
University of Oklahoma (OK)
Paramus Catholic High School (NJ)
Penn State University (PA)
Ringgold High School (PA)
Saint John Bosco High School (CA)
Salina High School (KS)
Sam Houston State University (TX)
Silverlakes Equestrian & Sports Park (CA)
Texas A&M University (TX)
Tri-Town High School (ME)
Tulane University (LA)
University Liggett School (MI)
Utah State University (UT)
Viera Regional Park (FL)
The Village School (TX)

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ROOTZONE



ROOTZONE 3D3 BLEND HD 60 GT-B

AstroTurf's Rootzone 3D3 Blend HD GT-B integrates sustainable materials into its Premium Rootzone product. While still utilizing the revolutionary Rootzone and Trionic Plus, the RootZone 3D3 Blend HD GT-B is crafted using 11% of materials that are renewable and biobased. This not only helps in reducing environmental impact but also supports the global movement towards greener alternatives in industrial products .

Our proprietary Trionic Plus fiber offers unparalleled strength and longevity. This advanced fiber technology ensures that the turf maintains its appearance and functionality over time, even under heavy use, making it an excellent choice for sports fields, playgrounds, and commercial landscapes.

Safety and player comfort are paramount. The RootZone system, featuring a thatch layer, helps in reducing the impact on athletes, thus minimizing injuries. It also provides a more natural feel and better traction, enhancing the overall playing experience.

RootZone 3D3 Blend HD GT-B is designed for minimal maintenance, reducing the need for water, fertilizers, and pesticides. This leads to significant cost savings over the product's lifecycle and contributes to the reduction of environmental pollutants.





Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Extremely durable slit film fibers
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The first sports turf product line to incorporate Bio-based raw materials into its manufacturing process and receive USDA certification.



USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 11%

ROOTZONE 3D3 BLEND HD 60 GT-B

FOOTBALL ▪ SOCCER ▪ LACROSSE ▪ MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and Bio-Based PE RootZone	N/A
Yarn Denier	16,200 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/675 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1440 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	7.2 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	22 oz per SY Biobased Coating	D- 5848
Total Carpet Weight	89.2 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F (Slit Film) / 258° F (Mono)	D-789
Flammability	TEST PASSED	D-2859

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 11%

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ROOTZONE



ROOTZONE 3DM 52

AstroTurf's RootZone 3DM system features the exciting Trionic Plus Monofilament. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

AstroTurf's RootZone® 3D Series also boasts the RootZone technology. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With a RootZone and Trionic Plus monofilament fibers, the RootZone 3DM product offers outstanding player protection, excellent durability and superior aesthetics.

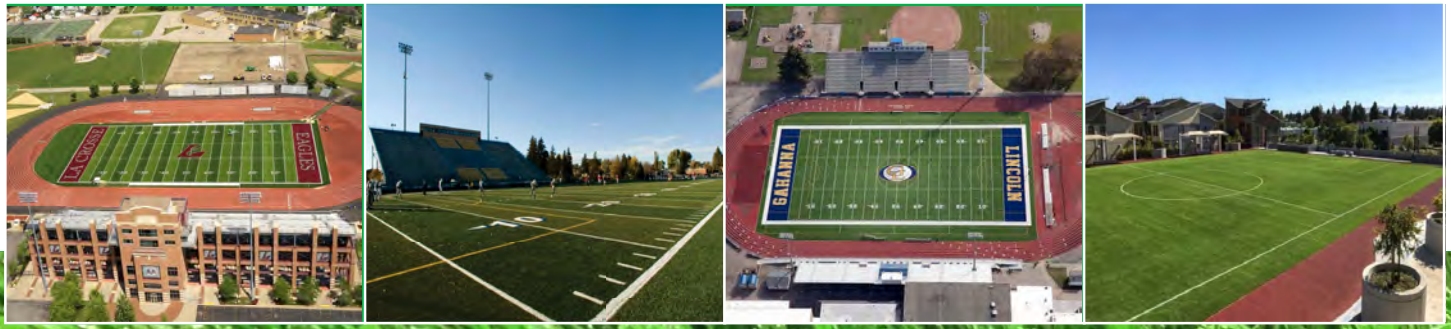


White | Bright Yellow | Vegas Gold | Orange | Red | Crimson | Red Clay

Brown | Purple | Lagoon Blue | Florida Blue | Navy | Gray | Black

*Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
- Statblock Anti-static component provides up to a 17x reduction in static levels
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory



ROOTZONE 3DM 52

FOOTBALL ▪ SOCCER ▪ LACROSSE ▪ MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus Polyethylene/Nylon blend Monofilament and Polyethylene RootZone	N/A
Yarn Denier	16,200 (6 ends/1,800 per end for Mono, 8 ends/675 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	3-Color Trionic Plus	None
Construction	Tufted	None
Turf Density	936 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	78.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	258° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Alabama State University (AL)
Baltimore City College High School (MD)
Bryan Independent School District (TX)
C. Milton Wright High School (MD)
Cardinal Gibbons High School (NC)
Centre College (KY)
Chaffey USD (CA)
Columbia High School (IL)
Elizabeth Parks (NJ)
Emery Weiner School (TX)
Evergreen SportsPlex (VA)
Golden Valley High School (CA)
Hatboro Horsham High School (PA)
Hopewell Valley High School (NJ)
Judson ISD (TX)
Lewis & Clark College (OR)
Magnolia ISD (TX)
University of Massachusetts - Amherst (MA)
University of Michigan (MI)
Oregon State University (OR)
Pomona USD (CA)
Refugio High School (TX)
Ridgeland High School (GA)
Rocky Top Sports World (TN)
Rutgers Camden University (NJ)
Sacred Heart Preparatory School (CA)
Scottsdale Christian Academy (AZ)
St. Rita High School (IL)
Stanford University (CA)
Ted Hendricks Stadium (FL)
Temple High School (TX)
Union County Parks (NJ)
West Ranch High School (CA)
Windber Area High School (PA)

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ROOTZONE



ROOTZONE 3DM 60

AstroTurf's RootZone 3DM system features the exciting Trionic Plus Monofilament. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

AstroTurf's RootZone® 3D Series also boasts the RootZone technology. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With a RootZone and Trionic Plus monofilament fibers, the RootZone 3DM product offers outstanding player protection, excellent durability and superior aesthetics.

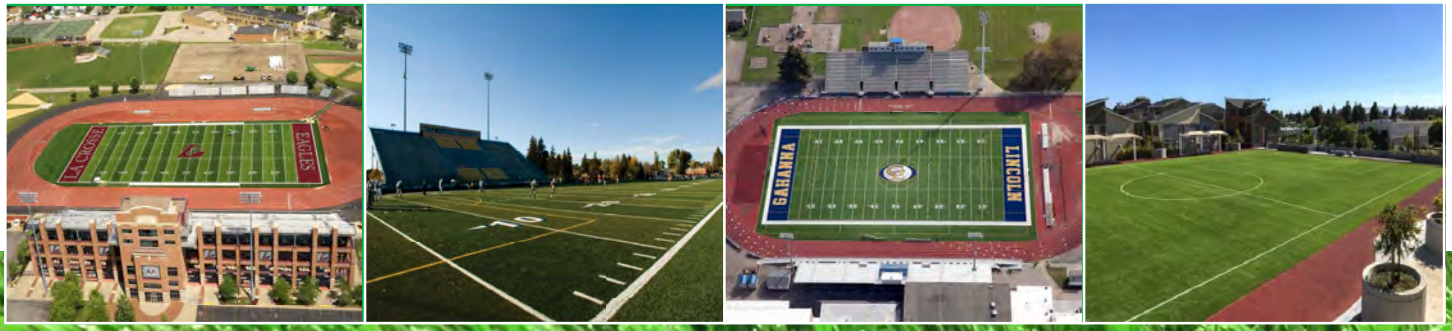


White | Bright Yellow | Vegas Gold | Orange | Red | Crimson | Red Clay

Brown | Purple | Lagoon Blue | Florida Blue | Navy | Gray | Black

*Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
- Statblock Anti-static component provides up to a 17x reduction in static levels
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory



ROOTZONE 3DM 60

FOOTBALL ▪ SOCCER ▪ LACROSSE ▪ MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus Polyethylene/Nylon blend Monofilament and Polyethylene RootZone	N/A
Yarn Denier	16,200 (6 ends/1,800 per end for Mono, 8 ends/675 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 100 microns for RootZone	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	3-Color Trionic Plus	None
Construction	Tufted	None
Turf Density	1080 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	86.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	258° F	D-789
Flammability	TEST PASSED	D-2859

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Columbia High School (IL)
Elizabeth Parks (NJ)
Emery Weiner School (TX)
Evergreen SportsPlex (VA)
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University of Michigan (MI)
Oregon State University (OR)
Pomona USD (CA)
Refugio High School (TX)
Ridgeland High School (GA)
Rocky Top Sports World (TN)
Rutgers Camden University (NJ)
Sacred Heart Preparatory School (CA)
Scottsdale Christian Academy (AZ)
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ROOTZONE



ROOTZONE 3DSF 52

AstroTurf's RootZone® 3D Series boasts the RootZone technology. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time.

The RootZone's benefits are numerous. RootZone 3D fields offer grass-like traction, per independently funded, peer reviewed research by Michigan State University. Plus, by better keeping infill in place, the RootZone promotes more consistent footing and more uniform shock absorption over time. And with a more uniform infill level, UV exposure to the fibers is more consistent across the field, which boosts the field's longevity.

With a RootZone and slit film face fibers, the RootZone 3DSF product is designed for extremely heavy wear, including confined indoor use, pushing sleds, etc.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable slit film face fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory

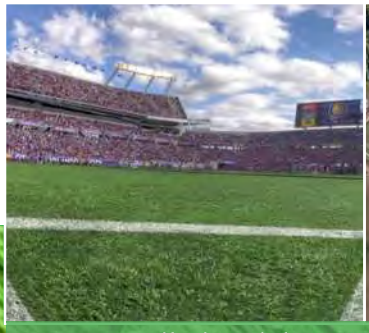
ROOTZONE 3DSF





"This new playing surface provided by AstroTurf is a welcome addition to Peden Stadium. The new surface will provide our football program with one of the finest fields in the country for years to come. We've had nothing but positive responses from our players."

Frank Solich, Head Football Coach, Ohio University


Camping World Stadium – Orlando, FL


Lawrence Tech University – Southfield, MI


Liberty University – Lynchburg, VA



Ohio University – Athens, OH

ROOTZONE 3DSF 52

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film and RootZone	N/A
Yarn Denier	15,000 (10,000 denier per end for Slit Film, 8 ends/625 denier per end for RootZone)	D-1577
Yarn Thickness	115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	936 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	78.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Adams High School (MI)
Adrenaline Soccer Club (MN)
Burke County High School (GA)
Camping World Stadium (Citrus Bowl - FL)
University of Cincinnati (OH)
Rogers Soccer Complex (AR)
Dana Hills High School (CA)
Danvers Indoor Sports Complex (MA)
Georgia State University (GA)
University of Georgia (GA)
Greater Wichita YMCA (KS)
Jacksonville University (FL)
James Madison University (VA)
Johnstown Monroe High School (OH)
Kentucky Country Day School (KY)
Lawrence Technological University (MI)
Liberty Bowl (TN)
Liberty University (VA)
Little Rock Public Schools (AR)
Marion High School (IL)
Mercer University (GA)
Michigan State University (MI)
University of Mount Union (OH)
Ohio University (OH)
Oklahoma Panhandle State (OK)
The Pitch (ME)
Resolute Athletic Complex (OH)
Rhea County High School (TN)
Saint George's School (RI)
Schaumburg Sports Center (IL)
Sequatchie County High School (TN)
Stanford Drive Park (NJ)
Starland University Sport Complex (PA)
Texas A&M University (TX)
Trousdale County School (TN)
Ultimate Soccer Arenas (MI)
Warren County High School (TN)
West Texas A&M University (TX)
Wingate University (NC)
Yonkers Public Schools (NY)

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ROOTZONE



ROOTZONE 3DSF 60

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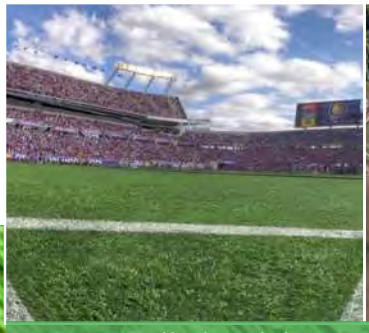
ROOTZONE 3DSF





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Liberty University – Lynchburg, VA



Ohio University – Athens, OH

ROOTZONE 3DSF 60

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film and RootZone	N/A
Yarn Denier	15,000 (10,000 denier per end for Slit Film, 8 ends/625 denier per end for RootZone)	D-1577
Yarn Thickness	115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	1080 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	86.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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Dana Hills High School (CA)
Danvers Indoor Sports Complex (MA)
Georgia State University (GA)
University of Georgia (GA)
Greater Wichita YMCA (KS)
Jacksonville University (FL)
James Madison University (VA)
Johnstown Monroe High School (OH)
Kentucky Country Day School (KY)
Lawrence Technological University (MI)
Liberty Bowl (TN)
Liberty University (VA)
Little Rock Public Schools (AR)
Marion High School (IL)
Mercer University (GA)
Michigan State University (MI)
University of Mount Union (OH)
Ohio University (OH)
Oklahoma Panhandle State (OK)
The Pitch (ME)
Resolute Athletic Complex (OH)
Rhea County High School (TN)
Saint George's School (RI)
Schaumburg Sports Center (IL)
Sequatchie County High School (TN)
Stanford Drive Park (NJ)
Starland University Sport Complex (PA)
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Ultimate Soccer Arenas (MI)
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West Texas A&M University (TX)
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DIAMOND SERIES



ROOTZONE DIAMOND BLEND OPS 52

Today's premiere baseball and softball surface, Diamond Series, handles ball bounce like a natural grass field in every area of performance - outfield, infield and base paths. And this can be custom tailored to any coach or facility specifications for speed or bounce.

Diamond Series fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years. Outfield, infield, base paths, pitcher's mound, batters' boxes and warning tracks are each surfaced with unique AstroTurf products designed specifically to replicate natural field playability.

This product features three unique fibers – slit film fibers for durability, TRIONIC Plus monofilament fibers for aesthetics and RootZone fibers for playability. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time. With a RootZone, hops and slaps are more natural because the ball is less susceptible to interference from sand/rubber splash and fly-out. Fewer divots are seen than on other synthetic fields.

This system includes the exciting TRIONIC Plus monofilament fiber. For the first time in the history of the industry, our experts have molecularly fused Polyethylene and Nylon into a single Trionic fiber. That translates to softness AND durability. The inclusion of our Sanitized Silver-based technology, Dualchill Thermal shield and Statblock anti-static component provides additional benefits to ensure the longest lasting, highest performing fiber available.

It's all about the bounce.

"We couldn't be more pleased with AstroTurf Diamond Series for our baseball field. The follow up and service after the completion is second to none. We're happy to be a part of the AstroTurf family."

Ryan Folmar, Head Baseball Coach, Oral Roberts University

ROOTZONE DIAMOND BLEND OPS

The RootZone Diamond Blend OPS product is used for the grass portions of baseball and softball fields.



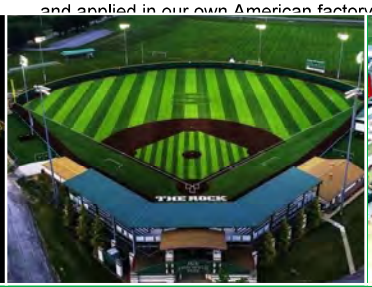


Colors to be manufactured with PE Legend Fiber

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Extremely durable slit film fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
- Statblock Anti-static component provides up to a 17x reduction in static levels
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory


Fort Scott Community College - Fort Scott, KS


Sand Mountain Park - Albertville, AL



Slippery Rock University - Slippery Rock, PA


Ripken Experience - Aberdeen, MD

ROOTZONE DIAMOND BLEND OPS 52

BASEBALL • SOFTBALL

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic Plus PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and RootZone	N/A
Yarn Denier	16,000 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/700 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1248 oz/yd^3	HUD 44d
Gauge	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	78.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Baseball Installations:

Abilene Christian University (TX)
Ball State University (IN)
Dallas Baptist University (TX)
University of Delaware (DE)
Eastern Michigan University (MI)
University of Iowa (IA)
University of Michigan (MI)
Northwestern University (IL)
University of Oklahoma (OK)
Oral Roberts University (OK)
University of Portland (OR)
University of Richmond (VA)
Sam Houston State University (TX)
University of San Francisco (CA)
Seattle University (WA)
Southern Illinois University (IL)
Washington State University (WA)
Western Kentucky University (KY)
West Virginia University (WV)

Softball Installations:

Abilene Christian University (TX)
Ball State University (IN)
Liberty University (VA)
University of Michigan (MI)

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DIAMOND SERIES



ROOTZONE DIAMOND BLEND RBI 60

Today's premiere baseball and softball surface, Diamond Series, handles ball bounce like a natural grass field in every area of performance - outfield, infield and base paths. And this can be custom tailored to any coach or facility specifications for speed or bounce.

Diamond Series fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years. Outfield, infield, base paths, pitcher's mound, batters' boxes and warning tracks are each surfaced with unique AstroTurf products designed specifically to replicate natural field playability.

This product features three unique fibers – slit film fibers for durability, TRIONIC Plus monofilament fibers for aesthetics and RootZone fibers for playability. The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time. With a RootZone, hops and slaps are more natural because the ball is less susceptible to interference from sand/rubber splash and fly-out. Fewer divots are seen than on other synthetic fields.

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Ryan Folmar, Head Baseball Coach, Oral Roberts University

ROOTZONE DIAMOND BLEND RBI

The RootZone Diamond Blend RBI product is used for the grass portions of baseball and softball fields.



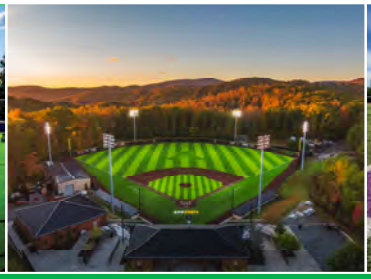


Colors to be manufactured with PE Legend Fiber

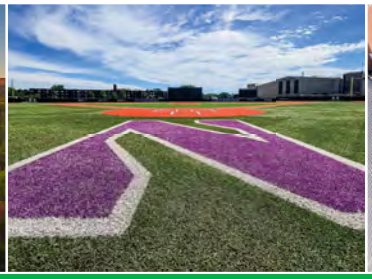
- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Trionic Plus monofilament fibers featuring a proprietary co-polymer blend of Polyethylene and Nylon in a single fiber
- Extremely durable slit film fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Sanitized Silver-based technology helps eliminate bacterial odors and prevents microbe build-up
- Dualchill Thermal shield provides an average of up to 42% improvement in IR reflectivity
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- RootZone infill stabilization system
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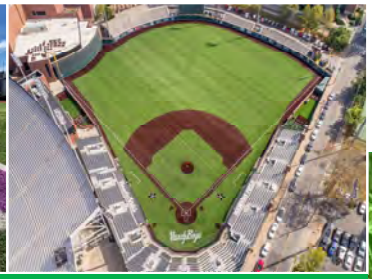
University of Washington - Seattle, WA



Appalachian State University - Boone, NC



Northwestern University - Evanston, IL



Vanderbilt University - Nashville, TN

ROOTZONE DIAMOND BLEND RBI 60

BASEBALL • SOFTBALL

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic PE/PA Co-Polymer Monofilament, Polyethylene Slit Film and RootZone	N/A
Yarn Denier	15,400 (6 ends/1,800 per end for Mono, 10,000 per end for Slit Film and 8 ends/625 denier per end for RootZone)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit Film and 100 microns for RootZone	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	3-Color Trionic Plus/Field Green Slit-film	None
Construction	Tufted	None
Turf Density	1,080 oz/yd^3	HUD 44d
Gauge	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	86.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Baseball Installations:

Boston College (MA)
Duke University (NC)
Indiana University (IN)
James Madison University (VA)
University of Kansas (KS)
University of Kentucky (KY)
Liberty University (VA)
Long Island University - Brooklyn (NY)
The Ohio State University (OH)
Southern Illinois University - Edwardsville (IL)
St. John's University (NY)
St. Joseph's University (PA)
Tulane University (LA)
Vanderbilt University (TN)
Virginia Tech (VA)

Softball Installations:

Aurora University (IL)
Boston College (MA)
Cornell University (NY)
Creighton University (NE)
Davenport University (MI)
Long Island University – Brooklyn (NY)
Madison College (WI)
Madonna University (MI)
Marshall University (WV)
University of Minnesota (MN)
University of Oregon (OR)
Texas A&M Commerce (TX)
West Texas A&M University (TX)

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DIAMOND SERIES



ROOTZONE DIAMOND ERA OPS 90

Today's premiere baseball and softball surface, Diamond Series handles ball bounce exactly like a natural grass field in every area of performance - outfield, infield and base paths. And this can be custom tailored to any coach or facility specifications for speed or bounce.

Diamond Series fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years. Outfield, infield, base paths, pitcher's mound, batters' boxes and warning tracks are each surfaced with unique AstroTurf products designed specifically to replicate natural field playability.

The torque generated in pitching and batting makes these areas the most used and abused of any sports field. But the ERA system is designed to stand up to this heavy use.

ERA stands for Extra Resilience Area. This product features unique fibers packed into an incredibly dense fiber matrix. Diamond-shaped polyethylene face fibers, diamond-shaped nylon face fibers and nylon RootZone fibers comprise the RootZone Diamond ERA OPS. The use of nylon in this area of the field is critical and the durability sets AstroTurf's Diamond Series apart. Plus, eight sets of batters' boxes come with every field!

It's all about the bounce.

ROOTZONE DIAMOND ERA OPS

The RootZone Diamond ERA OPS product is used for the batters' boxes, catchers' boxes and pitching areas of baseball and softball fields.



Brown

Red Clay

"I was 100% against artificial mounds and now that I've experienced the benefits of AstroTurf mound technology I am for it because it saves games constant rainouts."

Skip Johnson, Head Baseball Coach, University of Oklahoma

- Extremely dense profile for ultimate durability
- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Diamond-shaped PE and Nylon face fibers that are designed to lay over and replicate clay
- Nylon boosts durability
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Nylon RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- Infill mixtures specifically designed to play like clay



Fort Scott Community College - Fort Scott, KS



Sand Mountain Park - Albertville, AL



Slippery Rock University - Slippery Rock, PA



Ripken Experience - Aberdeen, MD

ROOTZONE DIAMOND ERA OPS 90

BASEBALL • SOFTBALL

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Diamond Polyethylene/Nylon twisted Monofilament and Nylon RootZone	N/A
Yarn Denier	15,800 (10 ends/1,060 per end for Mono, 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	241 microns for Mono, 100 microns for RootZone	D-3218
Pile Weight	90 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	Red Clay, Brown	None
Construction	Tufted	None
Turf Density	2,160 oz/yd^3	HUD 44d
Gauge	3/16"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	116.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 100'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F PE/ 428° F Nylon	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Baseball Installations:

University of Oklahoma (OK)
Oral Roberts University (OK)
University of Portland (OR)
Seattle University (WA)
Washington State University (WA)

Softball Installations:

Pittsburg State University (KS)
Maize Unified School District (KS)

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DIAMOND SERIES



ROOTZONE DIAMOND ERA RBI 90

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It's all about the bounce.

- Extremely dense profile for ultimate durability
- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Diamond-shaped PE and Nylon face fibers that are designed to lay over and replicate clay
- Nylon boosts durability
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting

ROOTZONE DIAMOND ERA RBI

The RootZone Diamond ERA RBI product is used for the batters' boxes, catchers' boxes and pitching areas of baseball and softball fields.





Brown | Red Clay

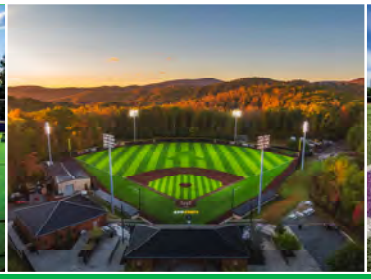
"I was 100% against artificial mounds and now that I've experienced the benefits of AstroTurf mound technology I am for it because it saves games from constant rainouts."

Skip Johnson, Head Baseball Coach, University of Oklahoma

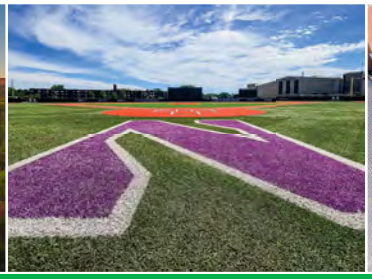
- Nylon RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability, and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- Infill mixtures specifically designed to play like clay



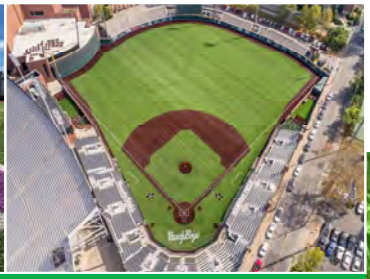
University of Washington - Seattle, WA



Appalachian State University - Boone, NC



Northwestern University - Evanston, IL



Vanderbilt University - Nashville, TN

ROOTZONE DIAMOND ERA RBI 90

BASEBALL • SOFTBALL

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Diamond Polyethylene/Nylon twisted Monofilament and Nylon RootZone	N/A
Yarn Denier	15,800 (10 ends/1,060 per end for Mono, 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	241 microns for Mono, 100 microns for RootZone	D-3218
Pile Weight	90 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	Red Clay, Brown	None
Construction	Tufted	None
Turf Density	2,160 oz/yd^3	HUD 44d
Gauge	3/16"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	116.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 100'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F PE/ 428° F Nylon	D-789
Flammability	TEST PASSED	D-2859

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Baseball Installations:
University of Kentucky (KY)
University of Oklahoma (OK)
Oral Roberts University (OK)
University of Portland (OR)
Seattle University (WA)
Washington State University (WA)

Softball Installations:
Pittsburg State University (KS)
Maize Unified School District (KS)

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DIAMOND SERIES



ROOTZONE DIAMOND-i OPS 52

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This product features unique fibers – diamond-shaped polyethylene face fibers, diamond-shaped nylon face fibers and nylon RootZone fibers. The use of nylon in this area of the field is critical and sets AstroTurf's Diamond Series apart. Not only does it boost longevity for some of the most heavily used areas in all of sports, it also creates more realistic sliding distances.

The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time. With a RootZone, hops and slaps are more natural because the ball is less susceptible to interference from sand/rubber splash and fly-out. Fewer divots are seen than on other synthetic fields.

It's all about the bounce.

ROOTZONE DIAMOND-i OPS

The RootZone Diamond-i OPS product is used to replicate clay on baseball and softball fields.





Brown | Red Clay

"Our new facility has been outstanding for many reasons. With such a great playing surface we are able to utilize our practice time much better and we don't have rainouts. It has been great for recruiting."

Jim Sherman, Head Coach, University of Delaware

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Diamond-shaped PE and Nylon face fibers that are designed to lay over and replicate clay
- Nylon adds durability and realistic sliding distances
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Nylon RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- Infill mixtures specifically designed to play like clay



Fort Scott Community College - Fort Scott, KS



Sand Mountain Park - Albertville, AL



Slippery Rock University - Slippery Rock, PA



Ripken Experience - Aberdeen, MD

ROOTZONE DIAMOND-i OPS 52

BASEBALL • SOFTBALL

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Diamond Polyethylene/Nylon twisted Monofilament and Nylon RootZone	N/A
Yarn Denier	15,800 (10 ends/1,060 per end for Mono, 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	241 microns for Mono, 100 microns for RootZone	D-3218
Pile Weight	52 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	Red Clay, Brown	None
Construction	Tufted	None
Turf Density	1,248 oz/yd^3	HUD 44d
Gauge	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	78.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F PE / 428° F Nylon	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Baseball Installations:

Abilene Christian University (TX)
Ball State University (IN)
Dallas Baptist University (TX)
University of Delaware (DE)
Eastern Michigan University (MI)
University of Iowa (IA)
University of Michigan (MI)
Northwestern University (IL)
University of Oklahoma (OK)
Oral Roberts University (OK)
University of Portland (OR)
University of Richmond (VA)
Sam Houston State University (TX)
University of San Francisco (CA)
Seattle University (WA)
Southern Illinois University (IL)
Washington State University (WA)
Western Kentucky University (KY)
West Virginia University (WV)

Softball Installations:

Abilene Christian University (TX)
Ball State University (IN)
Liberty University (VA)
University of Michigan (MI)

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DIAMOND SERIES



ROOTZONE DIAMOND-i RBI 60

Today's premiere baseball and softball surface, Diamond Series handles ball bounce like a natural grass field in every area of performance - outfield, infield and base paths. And this can be custom tailored to any coach or facility specifications for speed or bounce.

Diamond Series fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years. Outfield, infield, base paths, pitcher's mound, batters' boxes and warning tracks are each surfaced with unique AstroTurf products designed specifically to replicate natural field playability.

This product features unique fibers – diamond-shaped polyethylene face fibers, diamond-shaped nylon face fibers and nylon RootZone fibers. The use of nylon in this area of the field is critical and sets AstroTurf's Diamond Series apart. Not only does it boost longevity for some of the most heavily used areas in all of sports, it also creates more realistic sliding distances.

The RootZone is a system of texturized fibers that curl down to create a net-like matrix that encapsulates infill – dramatically reducing infill spray during play and infill migration over time. With a RootZone, hops and slaps are more natural because the ball is less susceptible to interference from sand/rubber splash and fly-out. Fewer divots are seen than on other synthetic fields.

It's all about the bounce.

ROOTZONE DIAMOND-i RBI

The RootZone Diamond-i RBI product is used to replicate clay on baseball and softball fields.





Brown | Red Clay

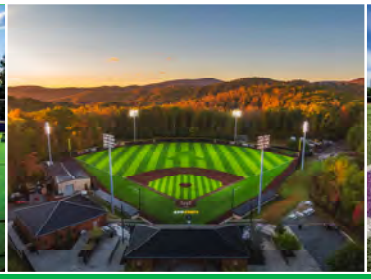
"Moving to turf was not an easy decision for us and came with a great deal of research. We wanted a surface that would bring harmony to both the offensive and defensive components of the game. AstroTurf's product allowed us the best opportunity to do this without compromising any aspect of our field."

Tim Corbin, Head Baseball Coach, Vanderbilt University

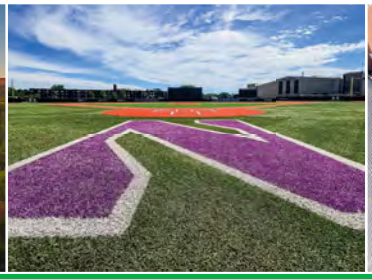
- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Diamond-shaped PE and Nylon face fibers that are designed to lay over and replicate clay
- Nylon adds durability and realistic sliding distances
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Nylon RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- Infill mixtures specifically designed to play like clay



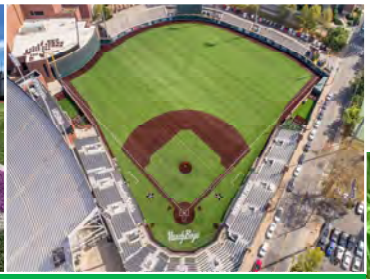
University of Washington - Seattle, WA



Appalachian State University - Boone, NC



Northwestern University - Evanston, IL



Vanderbilt University - Nashville, TN

ROOTZONE DIAMOND-i RBI 60

BASEBALL • SOFTBALL

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Diamond Polyethylene/Nylon twisted Monofilament and Nylon RootZone	N/A
Yarn Denier	15,800 (10 ends/1,060 per end for Mono, 8 ends/650 denier per end for RootZone)	D-1577
Yarn Thickness	241 microns for Mono, 100 microns for RootZone	D-3218
Pile Weight	60 oz per SY	D- 5848
Finished Pile Height	1.5"	D-5823
Standard Field Color	Red Clay, Brown	None
Construction	Tufted	None
Turf Density	1,440 oz/yd^3	HUD 44d
Gauge	3/8"	D-5793
Primary Backing	6.7 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	86.7 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F PE / 428° F Nylon	D-789
Flammability	TEST PASSED	D-2859

Some of our installations include:

Baseball Installations:

Boston College (MA)
Duke University (NC)
Indiana University (IN)
James Madison University (VA)
University of Kansas (KS)
University of Kentucky (KY)
Liberty University (VA)
Long Island University - Brooklyn (NY)
The Ohio State University (OH)
Southern Illinois University - Edwardsville (IL)
St. John's University (NY)
St. Joseph's University (PA)
Tulane University (LA)
Vanderbilt University (TN)
Virginia Tech (VA)

Softball Installations:

Aurora University (IL)
Boston College (MA)
Cornell University (NY)
Creighton University (NE)
Davenport University (MI)
Long Island University – Brooklyn (NY)
Madison College (WI)
Madonna University (MI)
Marshall University (WV)
University of Minnesota (MN)
University of Oregon (OR)
Texas A&M Commerce (TX)
West Texas A&M University (TX)

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Rhino
AstroTurf



RHINO FD44

AstroTurf's Rhino Series synthetic sports turf is a good choice for clients that want to increase the playing time and performance of their sports fields. The Rhino Series systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction, and installation.

The Rhino systems utilize top-notch slit film fibers for proven durability.

Rhino Series fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable slit film fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory

RHINO FD44

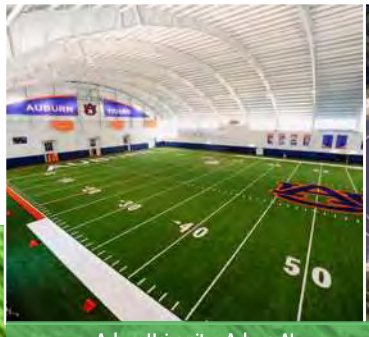
The Rhino systems utilize top-notch slit film fibers for proven durability.





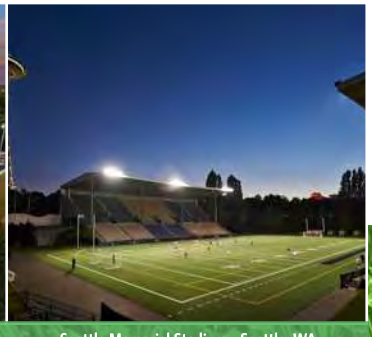
"The playability, consistency, durability, and aesthetics of the AstroTurf surfaces are the best we've seen and allows our players, at all levels, to practice and compete on the best surface in the world."

Ben Oliver, General Manager, Starfire Sports – Tukwila, WA


Auburn University – Auburn, AL


Forest Hills High School – Grand Rapids, MI


Robert L. Taylor Sportsfield – Sarasota, FL


Seattle Memorial Stadium – Seattle, WA

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	44 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	792 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	16 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	26 oz per SY Polyurethane	D- 5848
Total Carpet Weight	86 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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AstroTurf®



GTQ40 HD

Breakthrough technologies ensure that AstroTurf systems exceed all FIFA standards. And full control over the manufacturing, construction and installation chain ensures that our soccer customers receive the best fields in the industry.

GTQ40 HD synthetic sports turf is a good choice for clients that want to increase the playing time and performance of their sports fields. These systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction, and installation.

This system combines Trionic Monofilament fibers and slit film fibers for resistance to wear and aesthetics for your field.

These fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Durable Trionic monofilament fibers for pristine aesthetics
- Exceptionally durable slit film fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory

GTQ 40 HD is FIFA Certified.





Colors to be manufactured with PE Legend Fiber





GTQ40 HD

SOCCER MULTIPURPOSE

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic PE/PA Co-Polymer Monofilament & Slit Film	N/A
Yarn Denier	10,400 (6 ends, 1800 Denier per filament, 10,000 denier per end for Slit-Film)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit-film	D-3218
Pile Weight	40 oz per SY	D- 5848
Finished Pile Height	1.625"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	886 oz/yd^3	HUD 44d
Gauge	1/2"	D-5793
Primary Backing	6.7 oz per SY Multilayer	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	66.7 oz per SY	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248F (PE)	D-789
Flammability	TEST PASSED	D-2859



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AstroTurf®



GTQ64

Breakthrough technologies ensure that AstroTurf systems exceed all FIFA standards. And full control over the manufacturing, construction and installation chain ensures that our soccer customers receive the best fields in the industry.

GTQ64 synthetic sports turf is a good choice for clients that want to increase the playing time and performance of their sports fields. These systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction, and installation.

This system combines Trionic Monofilament fibers and slit film fibers for resistance to wear and aesthetics for your field.

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- Durable Trionic monofilament fibers for pristine aesthetics
- Exceptionally durable slit film fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory

GTQ64 is FIFA Certified.





Colors to be manufactured with PE Legend Fiber





GTQ64

SOCCER MULTIPURPOSE

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic PE/PA Co-Polymer Monofilament & Slit Film	N/A
Yarn Denier	10,400 (6 ends, 1800 Denier per filament, 10,000 denier per end for Slit-Film)	D-1577
Yarn Thickness	330 microns for Mono, 115 microns for Slit-film	D-3218
Pile Weight	40 oz per SY	D- 5848
Finished Pile Height	2.5"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	576 oz/yd^3	HUD 44d
Gauge	1/2"	D-5793
Primary Backing	6.7 oz per SY Multilayer	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	66.7 oz per SY	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248F (PE)	D-789
Flammability	TEST PASSED	D-2859



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AstroTurf®



GTS50

Breakthrough technologies ensure that AstroTurf systems exceed all FIFA standards. And full control over the manufacturing, construction and installation chain ensures that our soccer customers receive the best fields in the industry.

AstroTurf's GT synthetic sports turf is a good choice for clients that want to increase the playing time and performance of their sports fields. The GT systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction, and installation.

The GTS50 system utilizes top-notch slit film fibers for proven durability.

GT fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable slit film fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory

GTS50

GTS50 meets and exceeds FIFA testing standards and is FIFA Certified.









GTS50

SOCCER MULTIPURPOSE

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 Microns	D-3218
Pile Weight	34 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	612 oz/yd^3	HUD 44d
Gauge	1/2"	D-5793
Primary Backing	6.7 oz per SY Multilayer PP	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	60.7 oz per SY	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30"per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248F (PE)	D-789
Flammability	TEST PASSED	D-2859



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GTS64

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AstroTurf's GTS64 synthetic sports turf is a good choice for clients that want to increase the playing time and performance of their sports fields. The GT systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction, and installation.

The GTS64 system utilizes top-notch slit film fibers for proven durability.

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GTS64

GTS64 meets and exceeds FIFA testing standards and is FIFA Certified.



White	Bright Yellow	Vegas Gold	Orange	Red	Crimson	Red Clay
Brown	Purple	Lagoon Blue	Florida Blue	Navy	Gray	Black





GTS64

SOCCER MULTIPURPOSE

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 Microns	D-3218
Pile Weight	40 oz per SY	D- 5848
Finished Pile Height	2.5"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	576 oz/yd^3	HUD 44d
Gauge	1/2"	D-5793
Primary Backing	6.7 oz per SY Multilayer PP	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	66.7 oz per SY	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248F (PE)	D-789
Flammability	TEST PASSED	D-2859



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GTX40

Breakthrough technologies ensure that AstroTurf systems exceed all FIFA standards. And full control over the manufacturing, construction and installation chain ensures that our soccer customers receive the best fields in the industry.

With the Trionic Monofilament fiber, GTX64 is a premium system. It's easier to snap a toothpick than a golf tee. In the same way, additional material provides extra strength and resilience to turf fibers. This beefy monofilament is stronger, better resists splitting, and stands upright longer than previous iterations. The fiber has a ridged surface texture to help it stand up and a diamond shape, so it has no weak spots that can split.

- Durable Trionic Monofilament fibers for pristine aesthetics
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GTX40

GTX40 meets and exceeds FIFA testing standards and is FIFA Certified.





Colors to be manufactured with PE Legend Fiber





GTX40

SOCCER

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic PE/PA Co-Polymer Monofilament	N/A
Yarn Denier	10,800	D-1577
Yarn Thickness	330 Microns	D-3218
Pile Weight	34 oz per SY	D- 5848
Finished Pile Height	1.625"	D-5823
Standard Field Color	Field/Lime Green, Field Green	None
Construction	Tufted	None
Turf Density	753 oz/yd^3	HUD 44d
Gauge	1/2"	D-5793
Primary Backing	6.7 oz per SY Multilayer PP	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	60.7 oz per SY	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30"per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
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Colors to be manufactured with PE Legend Fiber





GTX50

SOCCER

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic PE/PA Co-Polymer Monofilament	N/A
Yarn Denier	10,800	D-1577
Yarn Thickness	330 Microns	D-3218
Pile Weight	34 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	Field /Lime Green	None
Construction	Tufted	None
Turf Density	612 oz/yd^3	HUD 44d
Gauge	1/2"	D-5793
Primary Backing	6.7 oz per SY Multilayer PP	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	60.7 oz per SY	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
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Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248F (PE)	D-789
Flammability	TEST PASSED	D-2859



Valid 01/01/2025 - 12/31/2025 Any change from the specified values is considered a special product that will require confirmation from manufacturing prior to ordering. All values are ± 5%. AstroTurf® has the right to modify technical specifications on the above-mentioned product. Delivered products can slightly differ from the technical data. AstroTurf® guarantees the technical quality of the proposed article.

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THE SURFACE SPECIALISTS

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AstroTurf®



GTX64

Breakthrough technologies ensure that AstroTurf systems exceed all FIFA standards. And full control over the manufacturing, construction and installation chain ensures that our soccer customers receive the best fields in the industry.

With the Trionic Monofilement fiber, GTX64 is a premium system. It's easier to snap a toothpick than a golf tee. In the same way, additional material provides extra strength and resilience to turf fibers. This beefy monofilament is stronger, better resists splitting, and stands upright longer than previous iterations. The fiber has a ridged surface texture to help it stand up and a diamond shape, so it has no weak spots that can split.

- Durable Trionic Monofilament fibers for pristine aesthetics
- Exclusive, precise fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory

GTX64

GTX64 meets and exceeds FIFA testing standards and is FIFA Certified.





Colors to be manufactured with PE Legend Fiber





GTX64

SOCCER | RUGBY

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Trionic PE/PA Co-Polymer Monofilament	N/A
Yarn Denier	10,800	D-1577
Yarn Thickness	330 Microns	D-3218
Pile Weight	40 oz per SY	D- 5848
Finished Pile Height	2.5"	D-5823
Standard Field Color	Field/Lime Green	None
Construction	Tufted	None
Turf Density	576 oz/yd^3	HUD 44d
Gauge	1/2"	D-5793
Primary Backing	6.7 oz per SY Multilayer PP	D- 5848
Secondary Backing	20 oz per SY Polyurethane	D- 5848
Total Carpet Weight	66.7 oz per SY	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248F (PE)	D-789
Flammability	TEST PASSED	D-2859



Valid 01/01/2025 - 12/31/2025 Any change from the specified values is considered a special product that will require confirmation from manufacturing prior to ordering. All values are ± 5%. AstroTurf® has the right to modify technical specifications on the above-mentioned product. Delivered products can slightly differ from the technical data. AstroTurf® guarantees the technical quality of the proposed article.

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POLIGRAS PARIS GT ZERO

POLIGRAS®

HOCKEY



GREEN technology
Biobased



Monofilaments texturized

Turf colour:	Paris Blue, Fieldgreen, Olive
Line colour:	White or yellow, other colours on request
Elastic layer:	Polytan EL/ ET (in-situ)
Carpet installation:	Floating/clamped
Seam:	Sewed, lines glued
Certificates:	I'm Green PE content/CEN16137
Maintenance:	See Polytan maintenance brochure

Yarn data		Thickness app.	Width app.	Fineness app.	Number of filaments
System 1	100 % Polytan PE, biobased GT, Monofilament texturized	110 µm	1 mm	6600 dtex	6

CONSTRUCTION DATA

Pile height app.	Machine gauge	Stitch density app.	Number of tufts app.	Number of filaments app.	Fibre weight app.
11 mm	3/16“	430/m	90900/m²	1090800/m²	1850 g/m²

BACKING CONSTRUCTION

Primary backing	100 % PP woven fabric, UV stabilised, PP/PES-glass fibre support layer
Coating	PolyCoat - 100 % PU coating
Coating weight app.	800 g/m²
Secondary backing (MultiBack)	100 % PP stabilizing fabric

PRODUCT DATA

Production technology	Tufting velours
Maximum witdth	4 m
Maximum length	Depending on installation width
Total height app.	13 mm
Total weight app.	3020 g/m²

QUALITY DATA

Water permeability app.	500 mm/h
Tuft pull out force app.	40 N
Tensile strength axial MD >	15 N/mm
Tensile strength longitudinal MD >	15 N/mm
Colour fastness	3 Grey scale

In order to maintain our surfaces to the highest and most up to date technical standards, we reserve the right to modify the product data. Slight color variations are determined to production. We advise that the technical values regarding yarn- and construction data as well as weight indications are approximate values and could vary due to technical reasons by +/- 10 %.

This technical data sheet has been carefully compiled to the best of our knowledge. We assume no liability for printing errors, errors relating to standards or mistakes. Technical amendments may also be made as a result of continuous further development as well as changes to standards and public law documents. The content of this technical data sheet therefore cannot be considered instructions for use or a legally binding basis.

polytan

WE MAKE SPORT.



POLIGRAS®



GREEN technology
Biobased

Unfilled turf

POLIGRAS PARIS GT ZERO

HOCKEY'S FIRST CLIMATE-NEUTRAL SYNTHETIC TURF FOR PARIS 2024



POLIGRAS PARIS GT ZERO

polytan

WE MAKE SPORT.





Unfilled turf

POLIGRAS PARIS GT ZERO

HOCKEY

High performance meets low environmental impact: Poligras Paris GT zero is the first ever climate-neutral synthetic hockey turf. The positive carbon footprint of Poligras Paris GT zero is due to filaments made of organically based raw materials and a recyclable polyurethane wear coat, the same properties that significantly reduce the weight of the turf and give it ideal playing properties. The high-performance hockey turf enables a precise and dynamic game while ensuring maximum player safety, even during complex playing manoeuvres. In addition, the synthetic turf is highly resistant to changeable weather conditions and strong UV radiation. It can also withstand intensive use over a long period of time, thanks to its durable design. The use of Polytan's Turf Glide Technology minimises surface friction for unbeatably fast ball-rolling behaviour. It also reduces water consumption while increasing the turf's player protection properties.



POLIGRAS PARIS GT ZERO

FIH | FIH GLOBAL SUPPLIER polytan | I'm green | hockey ZERO

PROPERTIES

- Filaments made of approx. 80 % organically based fibre raw material (polyethylene)
- Turf Glide Technology for less surface friction, reduced water consumption and optimised playing dynamics
- Climate-friendly PU back coating with Multiback technology
- FIH Global certified

AREAS OF USE

- Professional hockey facilities and stadiums
- Club pitches

GREEN technology

We act sustainably – from development and the selection of our raw materials, to the production, installation, maintenanceand recycling of our sports surfaces. Our products are designed with durability and efficient manufacturing in mind, using ecological materials and reliable processes.

More at: **www.polytan.com/sustainability**

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Get personalised support with your questions
Polytan GmbH, Gewerbering 3, 86666 Burgheim, Germany
Find more information at: **www.polytan.com/poligras**

Contact:
+49 (0) 8432 / 87-0
info@polytan.com

Rhino
AstroTurf



RHINO TC44

AstroTurf's Rhino Series synthetic sports turf is a good choice for clients that want to increase the playing time and performance of their sports fields. The Rhino Series systems benefit from AstroTurf's legendary quality control protocols, industry-leading R&D efforts, and start to finish control over manufacturing, civil construction, and installation.

The Rhino TC systems utilize top-notch slit film fibers for proven durability.

Rhino Series fields play and look so natural, yet provide the easy maintenance and exceptional durability we've become famous for over the past 50+ years.

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Exceptionally durable slit film fibers for resistance to wear
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory

RHINO TC44

The Rhino TC systems utilize top-notch slit film fibers for proven durability.





"The playability, consistency, durability, and aesthetics of the AstroTurf surfaces are the best we've seen and allows our players, at all levels, to practice and compete on the best surface in the world."

Ben Oliver, General Manager, Starfire Sports – Tukwila, WA



University of Hawaii - Honolulu, HI



Warrior Run High School - Turbotville, PA


Robert L. Taylor Sportsfield - Sarasota, FL



Phoenixville Area High School - Phoenixville, PA

RHINO TC44

FOOTBALL • SOCCER • LACROSSE • MULTISPORT

FINISH FABRIC	VALUE	ASTM TEST METHOD
Face Yarn Type	Polyethylene Slit Film	N/A
Yarn Denier	10,000	D-1577
Yarn Thickness	115 microns	D-3218
Pile Weight	44 oz per SY	D- 5848
Finished Pile Height	2.0"	D-5823
Standard Field Color	Field Green	None
Construction	Tufted	None
Turf Density	792 oz/yd^3	HUD 44d
Gauge:	3/8"	D-5793
Primary Backing	16 oz per SY Multilayer Polypropylene/Polyester	D- 5848
Secondary Backing	26 oz per SY Polyurethane	D- 5848
Total Carpet Weight	86 oz per SY (+/- 5%)	D-5848
Turf Roll Dimensions	15' wide by custom lengths up to 220'	N/A
Perforations	3/16" holes on staggered 4" (approximate) centers	N/A
Turf Permeability	> 30" +/- per hour	F-1551
Tuft Bind	> 8 lbs	D-1335
Grab Tear Strength (Average)	> 200 lbs	D-5034
Lead Content	< 50 ppm	F-2765
Elongation to Break	> 50%	D-2256
Yarn Breaking Strength	> 20 lbs	D-2256
Yarn Melting Point	248° F	D-789
Flammability	TEST PASSED	D-2859

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AstroTurf Corporation

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AstroTurf FIELDS | Rekortan TRACKS | Laykold COURTS | SYNLAWN LANDSCAPE

2023 AstroTurf 8-Year Warranty

AstroTurf Corporation, ("AstroTurf") warrants the synthetic grass surface (the "Product") **2023 Sample Warranty** (the "Project") for a period of eight (8) years from the date of Substantial Completion of **Product installation** against defects in materials and/or workmanship, including ultraviolet degradation, excessive fading, seam rupture or dislodgment. AstroTurf will repair or replace, as it deems necessary, those materials that exhibit such defects resulting from materials or workmanship at no cost to the Owner.

AstroTurf Corporation also guarantees the average G-Max level of its field will not exceed 165 for the duration of the warranty. If the average of the G-Max readings exceeds 165 during the warranty period, AstroTurf will take necessary measures, at no cost to the Owner to return the G-Max scores to, or below 165. G-Max is dependent upon proper field maintenance as outlined in the AstroTurf Owner's and Maintenance Manual and will be considered material in the event the G-Max values exceed 165.

The recommendations for proper maintenance of the AstroTurf surface, as outlined in the **"Owners' Manual and Guidelines"** (attached hereto), shall be considered material in determining neglect or improper maintenance of the synthetic grass surface and is an integral part of this Warranty. This Warranty does not pertain to or obligate AstroTurf in any way regarding materials applied or labor performed not under AstroTurf's control, or which was supplied or performed by others who are not parties to the performance contract or this Warranty. That is, AstroTurf will not warrant the performance or suitability of the sub-base, drainage system, and other items incorporated in the project as a whole.

This Warranty will be voided if any other contractor or turf manufacturer performs any repair service or maintenance on the AstroTurf field, with the following exceptions:

1. Employees of AstroTurf.

2. Independent installation or maintenance teams employed directly by AstroTurf or the Owner who have been certified and trained by AstroTurf to provide needed service or maintenance.

3. Employees or agents of the Owner, who systematically follow the Maintenance Guidelines provided by AstroTurf for maintaining the field; and who, under certain circumstances, may perform minor or emergency repair functions as per the Maintenance Guidelines.

Note: AstroTurf's Service Department may also approve or certify certain entities or individuals to protect and/or provide care for the product in place in conjunction and consultation with the Owner (such as concert promoters and others who may need to cover and protect the surface for non-athletic uses).

AstroTurf does not warrant against damage caused, directly or indirectly, by accident, negligence, abuse, neglect, vandalism, excessively heavy, dirty, or leaking equipment or vehicles, metal cleats in excess of ½ inch in length, animals, fire, including firework displays, floods, chemical reactions, static or dynamic loads exceeding AstroTurf specifications at the time of substantial completion of the installation (defined as the driving of motorized vehicles on the surface with tires that exceed 35 psi, loaded or unloaded, or the driving of motorized vehicles of any kind at a speed of more than 5 miles per hour). Static loads on the field that exceed 2 psi must not be allowed for more than 1 hour without appropriate steps taken to spread the load by means of protective layers of fabric and plywood or other suitable load- spreading materials.

The use of dry-cleaning fluids or improper cleaning methods, including high pressure water sprays

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exceeding 250 psi is not covered by the Warranty. Also, unsuitable paints and unsuitable paint removal chemicals and procedures are excluded from the Warranty. Other acts of God, such as tornados, lightning, hailstorms, sandstorms, volcanic activity, and unusual atmospheric conditions are also excluded.

AstroTurf does not warrant the system against normal wear and tear. Should a claim for damage be made, this claim will be evaluated and determined by an independent third party such as an independent lab specializing in synthetic grass. "Normal wear and tear" are defined as use of the field for athletic events totaling more than 1800 hours per year, as logged by the Owner. If you have a Baseball or Softball field Sliding boxes, pitching mounds, base paths and batters' and catchers' boxes are areas that cannot be covered by any set amount of use levels and are not covered for unlimited wear by the Warranty. Also not covered for unlimited wear under the warranty are Hot Spot areas detailed by the Owners' Manual (LAX creases, Goal Mouths, etc.) These areas will likely need to be replaced during the warranty period, depending on use and maintenance efforts. Furthermore, AstroTurf warrants that the system shall not lose more than 60% of its pile weight during the Warranty period, and not more than 10% per year in any given year (excluding the high use areas per ASTM D-412). Finally, improper, or faulty subsurface preparation, failure of the subsurface after installation--including settling of the surface, changes in water table, or changes resulting in inadequate drainage--are not covered by the AstroTurf Warranty.

AstroTurf's obligations under this warranty are restricted to the repair or, at its sole discretion, replacement of all or a portion of the affected parts covered by this Warranty. AstroTurf's liability under this Warranty is limited to the installed material and labor cost of the item to be repaired or replaced. The remedy of repair or replacement set forth in this Warranty shall be the sole remedy and AstroTurf shall have no other obligations or liability in connection with any matter, including without limitation, to damages for personal injury or damages related to lost revenue, increased costs, "downtime" and all other indirect or consequential damages.

This Warranty is expressly in lieu of all conditions, representations and Warranties expressed or implied in fact or in law or otherwise, including without limitation, any implied conditions, or Warranties as to merchantability or fitness for a particular purpose. No person or party is authorized to create any obligation or liability for AstroTurf other than the person authorized to execute this Warranty for AstroTurf, and only the guarantee expressed herein shall apply. The obligations of AstroTurf under the warranty are subject to full payment of all funds due to AstroTurf for materials and/or labor related to the above referenced Project. AstroTurf will respond to all Warranty claims promptly so long as the Owner's account is in good standing at the time of the claim. Furthermore, all claims by the Owner made under the foregoing Warranty shall be invalid and null and void unless made in writing to AstroTurf within eight (8) years from the date of substantial completion of the Project [and within thirty (30) days of the Owner observing issues directly related to its claim]. This Warranty is not transferable and is made between the parties listed below and is governed by the laws of the State of Georgia.

Date of Substantial Completion: **mm/dd/2023**

Issued to Owner: **2023 Sample Warranty**

Project Location: **2023 Sample Warranty**

Expiration Date: **mm/dd/2031**

Approved by **AstroTurf Corporation:**

By: _____ **Date**: _____
Vice President of Operations

SAMPLE

AstroTurf Corporation

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AstroTurf FIELDS | Rekortan TRACKS | Laykold COURTS | SYNLAWN LANDSCAPE

Witness: _____ **Date**: _____

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APT

sportgroup
THE SURFACE SPECIALISTS

APT Advanced Polymer Tech Corp.
109 Conica Lane.
Evans City, PA 16033 USA
(724) 452-1330
Fax. (724) 452-1703

advpolytech.com
info@advpolytech.com

Laykold Colorcoat Concentrate Warranty Statement

Advanced Polymer Technology (APT) warrants its Laykold Colorcoat Concentrate to be free of manufacturing defects for one (1) year from date of purchase when applied according to manufacturer's guidelines, properly cured during appropriate weather conditions. APT will not be held responsible for workmanship, storage, and timing of application, equipment used, or prior conditions of the substrate. APT as a supplier shall not be liable for any loss or damage either direct, incidental or consequential regardless of legal theory asserted, including negligence, merchantability and/or strict liability. The supplier's obligation shall be to replace such quantity or value of purchased product proven to be defective.

No warranty will apply if the materials are altered or modified after delivery. Warranty does not include labor costs incurred for the original product application, re-application, or any related damages. Before application, the applicator shall determine suitability of product for the intended use and user assumes all risk in connection therewith. This warranty does not include failures relative to previously applied coatings, improper service preparation, failure of the owner to preform appropriate maintenance procedures, pre-existing cracks, poor court and surrounding area drainage, moisture vapor transmission, hydrostatic pressure and all other conditions that originate beneath the Laykold surface.

This warranty is only for sports surfaces installed in appropriate locations and substrates. Event markings and logos applied to the surface are not covered under this warranty.

Product specifications and application procedures can be found at
www.sportgroup-techhub.com/laykold

SYNLAWN®
a sportgroup company

Effective: 1/01/2025

COMMERCIAL STATEMENT OF WARRANTY TERMS AND CONDITIONS

WARRANTY SCOPE

UV DEGREDATION

REFLECTIVE LIGHT

BACKING INTEGRITY

YARNS

TUFTBIND

This Exclusive Limited Warranty ("Warranty") is provided by SYNLawn ("Manufacturer") to the Purchaser ("Purchaser") of the SYNLawn synthetic turf product(s) identified below ("Product(s)"). By accepting the Product(s), Purchaser agrees to be bound by and accept these Warranty terms and conditions.

SECTION 1. PRODUCTS

As used in this Warranty, the terms "Product" or "Products" means the SYNLawn products listed in Exhibit A.

SECTION 2. EXCLUSIVE LIMITED LIFETIME WARRANTY

Manufacturer warrants to Purchaser that the Product(s) will substantially maintain their UV stability, tensile strength, and tuft bind under normal conditions. For purposes of this Warranty, a Product shall be deemed to have maintained its UV stability and tensile strength if the original tensile strength and pile height of the yarn does not decrease by more than fifty percent as a result of ultraviolet degradation. A Product shall be deemed to have maintained its tuft bind if the Product's face weight does not decrease by more than fifty percent. This Warranty is not transferrable and is subject to the limitations, conditions, exceptions, and exclusions set forth herein. Golf Tee Lines, Bocce, Tramble Zones and Agility Tracks are subject to the maximum Warranty Periods set for in the Proration Tables herein, beginning from the date of installation. See Section 7 herein for the Reflective Light Warranty.

PRORATION

COMMERCIAL

YEAR 1-8	100%
YEAR 9-10	50%
YEAR 11 +	15%

GOLF TEE LINES BOCCE

Less one tenth (1/10) per annum from date of installation

TRAMPLE ZONES

YEAR 1-15	100%

AGILITY TRACKS

YEAR 1-5	100%
YEAR 6-9	25%

SECTION 3. EXCLUSIVE REMEDY & PRORATED COST

Purchaser's sole and exclusive remedy and Manufacturer's sole liability for any Product that fails to perform as warranted hereunder shall be limited to the repair or replacement of that portion of the Product that failed to perform as warranted on the cost and other terms set forth herein. Within a reasonable time after receipt of the required Warranty claim notice, Manufacturer will determine, based on its experience and knowledge, the type and extent of repair or replacement reasonably necessary to return the affected portion of the Product to its original or reasonably equivalent condition. Product(s) supplied for the repair or replacement shall be warranted as if installed on the original project installation date for purposes of determining any future prorated remedy on such Product(s) under the Proration Table herein. If Manufacturer is unable to provide a replacement or repair is not commercially practicable as determined by Manufacturer, or if Purchaser otherwise accepts, Manufacturer may provide a credit to Purchaser to be used exclusively for the future purchase of Product(s) in an amount equal to the prorated amount paid by the Distributor (the "Distributor Cost") for the affected portion of the Product based on the Proration Table set forth in this Warranty, which begins from the date of the original project installation. Other than this exclusive remedy, Manufacturer shall have no other obligations or liabilities with respect to the Product. Manufacturer has sole discretion as to the disposition of the replaced material, including but not limited to, disposal on site, donation, and/or returning the material or samples thereof to Manufacturer or third-party. The exclusive remedy set forth herein will be made only after Purchaser meets all requirements set forth herein for submitting the claim and Manufacturer approves the claim based on the terms of this Warranty.

SECTION 4. CONDITIONS TO WARRANTY COVERAGE

Manufacturer will have no obligation under this Warranty until the following pre-conditions are met:

a. Manufacturer must receive full payment for the Product(s) or a signed purchase agreement.
b. Purchaser must register the Product with the SYNLawn Certification numbers and accept the terms of this Warranty at: [https://www.synlawn.com/register-your-synlawn-warranty/].
c. The Product must be installed in accordance with SYNLawn Installation Guidelines.
d. The Product must be installed on a compacted, crushed-stone, or other approved base that is adequate to support the Product and does not adversely affect the Product's performance.
e. Purchaser must inspect the Product for defects, damage, or non-conformities within five (5) days of final installation and before any use.
f. The Product must be used only for the applications stated in the Product's spec sheet.

COMMERCIAL STATEMENT OF WARRANTY TERMS AND CONDITIONS - PAGE 2

SECTION 5. EXCEPTIONS AND EXCLUSIONS

This Warranty excludes claims or damage directly or indirectly caused by or relating to any of the following:

a. Alteration, modification, repair attempts not approved by Manufacturer, misuse, abuse, negligence, neglect, accidents, or vandalism;
b. Pre-existing site conditions or project design, installation services, or materials provided by others;
c. The use or installation of the Product(s) with materials, components, or accessories other than those expressly approved by Manufacturer;
d. The use of improper cleaning agents, exposure to chemicals containing elements from the halogen group (such as chlorine, fluorine, bromine, or iodine), herbicides, pesticides, or other inappropriate chemicals, or chemical exposure from run-off from neighboring properties.
e. Any type of unreasonable use or failure to provide reasonable and necessary care and maintenance as stated in SYNLawn Care & Maintenance document [https://www.synlawn.com/do-it-yourself/care-and-maintenance/];
f. Smoke, fire, explosion, flood, storm, water escape, natural disaster, or other acts of God;
g. Any event, cause, or act not within the control of Manufacturer;
h. Improper installation of the Product(s);
i. Any abnormal physical or thermal stress, abnormal environmental conditions, conditions beyond the polyethylene Product(s) specified tolerances, or continued exposure to reflective light from windows and/or other objects;
j. Shipping and handling by carriers retained by Distributor or other non-Manufacturer parties; and/or
k. Mineral deposit build-up from exposure to hard water.
l. The use of improper foot wear including but not limited to athletic footwear with metal cleats, spiked golf shoes and spiked work boots.

In addition, this Warranty does not cover:

a. Normal wear and tear, matting, and routine service issues. Purchaser should carefully read product information materials and literature for information about optimizing the performance and life of the Product.
b. Installation issues. Your local SYNLawn Distributor/Dealer or contractor that installed the SYNLawn Product is solely responsible for the installation services provided, and any warranty claims related to installation should be directed to them.
c. Damage caused by animals or invasive species (i.e. gophers, moles, crab/nut grass, weeds, etc.). Should weeds develop please refer to the respective Product care and maintenance instructions for guidance.
d. Distortion in the fiber due to the perforation pattern applied in SYNPro Bocce products.
e. Products installed or re-installed by non-SYNLawn certified installers. Only certified SYNLawn installers can install or re-install SYNLawn Products.
f. Color fade, color change, or loss of colorfastness.

SECTION 6. CLAIM NOTICE REQUIREMENT

To make a claim under this Warranty, contact your local SYNLawn Dealer. As a pre-condition of this Warranty, all claims must be reported in writing within the time periods set forth herein. Claims relating to visually observable non-conformities must be made within 30 days of delivery for cut rolls or single rolls of turf and within 60 days of delivery for rolls that were ordered as part of a truckload shipment. Claims relating to issues only observable upon installation (such as streaks) must be reported in writing within 30 days of installation. All other claims must be submitted within 30 days of discovery of the Product nonconformity and within the Warranty Period, if applicable.

For claims relating to shipping and handling damage by carriers retained by Manufacturer, the damage must be noted on the proof of delivery or Manufacturer will not be responsible. Manufacturer is not responsible for any shipping and handling damage by carriers retained by Distributor or other non-Manufacturer parties.

SECTION 7. REFLECTIVE LIGHT

Subject to all the limitations, conditions, exceptions, and exclusions set forth herein, Manufacturer warrants its 100% nylon face fiber Products (SYNRye Collection products, Precision Putt Collection products, Classic Pitch Collection products, Tee Strike Collection products, and SYNPro Bocce Collection products) against burns caused by reflective ultra-violet light.

SECTION 8. LIABILITY LIMITATION

Purchaser's exclusive remedy and Manufacturer's sole liability for any and all claims or damages relating to the Product(s) is the exclusive remedy set forth herein. MANFUACTURER SHALL HAVE NO LIABILITY RELATING TO THE PRODUCT(S) FOR INDIRECT, INCIDENTIAL, OR CONSEQUENTIAL DAMAGES, personal injuries or death, or damages for inconvenience, lost use, lost revenue or profits, business interruption, loss of goodwill, commercial damages, third-party or user claims, or special, punitive, exemplary, or statutory damages, regardless of whether such liability arises from or is based on contract, express or implied warranty, misrepresentation, tort, strict liability, negligence, equity, or any statutory or regulatory obligation. In no event shall Manufacturer's liability exceed in any one case or in total the original Distributor Cost of the Product(s).

COMMERCIAL STATEMENT OF WARRANTY TERMS AND CONDITIONS - PAGE 3

SECTION 9. NO OTHER WARRANTIES, DISCLAIMER

Except as expressly set forth in this Warranty, Manufacturer makes no representations or warranties of any kind, nature, or description with respect to any of the Products. To the fullest extent permitted by law, ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE EXCLUDED AND DISCLAIMED.

This Warranty can only be modified in writing by an authorized officer of Manufacturer. No other modification, oral or in writing, may be made. This Warranty, Manufacturer's invoice with terms and conditions, and the parties' mutually executed written contract, if any, constitute the complete, final, and exclusive agreement and understanding between Manufacturer and Purchaser with respect to the terms of sale for the Product(s) and supersedes all prior oral or written communications, statements, representations, agreements, understandings, and assurances between the parties.

SECTION 10. MODIFICATIONS

This Warranty can only be modified in writing by an authorized officer of Manufacturer. No other modification, oral or in writing, may be made. This Warranty, Manufacturer's invoice with terms and conditions, and the parties' mutually executed written contract, if any, constitute the complete, final, and exclusive agreement and understanding between Manufacturer and Purchaser with respect to the terms of sale for the Product(s) and supersedes all prior oral or written communications, statements, representations, agreements, understandings, and assurances between the parties.

SECTION 11. GOVERNING LAW AND VENUE

Interpretation and enforcement of these terms and conditions shall be governed by the laws of the State of Georgia. Purchaser agrees that exclusive venue and jurisdiction for all actions and proceedings arising out of or relating to this Warranty or the Product(s) shall be brought in the state or federal courts located in the State of Georgia and the parties hereby consent to jurisdiction and venue in the state and federal courts of Georgia.

SECTION 12. SEVERABILITY

If any provision of this Warranty, in whole or in part, is held to be illegal, invalid, or unenforceable by a court of competent jurisdiction, the remaining provisions or portions of this Warranty shall constitute the parties' agreement with respect to the subject matter hereof, and all such remaining provisions or portions shall remain in full force and effect.

EXHIBIT A. PRODUCTS

Classic Pitch
Classic Pitch Tri
Classic Putt
Pet Platinum
Pet Premium
Play Platinum
Play Premium
Precision Putt
Precision Putt Tri
Roofdeck Platinum
Roofdeck Premium
SYNAccess
SYNAugustine 347
SYNAugustine 547
SYNAugustine 847
SYNAugustine X47
SYNBlue 545
SYNBlue 745
SYNCanine
SYNFescue 60
SYNFescue 80
SYNFescue 343
SYNNatural 35
SYNNatural 55
SYNNatural 60 GTR
SYNPlay 48 (no pad)
SYNPlay 48 (+pad)
SYNPlay 60 (no pad)
SYNPlay 60 (+pad)
SYNPro Bocce
SYNPro Pet
SYNPro Play
SYNRye 200
SYNRye 246
SYNRye 247
SYNSport Colors
SYNSport Green
SYNTipede 243
SYNTipede 321
SYNTipede 343
SYNTipede X43
Tee Strike
Tee Strike Plus

**Made to order (MTO) products produced by Manufacturer may be covered under this warranty.

MarshMcLennan Agency

Thursday April 3, 2025

Re: AstroTurf Corporation
Dalton, GA

We have been asked by AstroTurf Corporation to provide a reference letter to you.

We are the bonding agent for AstroTurf Corporation and acknowledge and confirm that Berkley Surety, through its affiliate Berkley Insurance Company, provides surety credit to AstroTurf Corporation. Berkley Insurance Company has an A.M. Best rating of "A+" (Superior) and a financial size of XV with a Treasury Listing of approximately $757,021,000 million.

We acknowledge and confirm that Berkley Surety has formed a relationship with AstroTurf Corporation to provide surety credit. Berkley Surety will consider typical single bond requests in the mount of $15,000,000 and with an aggregate backlog totaling $120,000,000. Individual bonds above the limits will be favorably considered on the merits at the time of request.

The issuance of surety credit is a matter between the principal and surety and conditioned upon the principal continuing to satisfy underwriting conditions at the time of a bond request. Berkley Surety assumes no responsibility or liability to you or any other third party should they decline to issue bonds.

Please do not hesitate to contact us for any additional information

Sincerely,

Dawn Denise Wright

Dawn Denise Wright
Attorney-in-Fact
Senior Client Manager

Liberty Tower, Suite 500 - 605 Chestnut Street - Chattanooga, TN 37450
423-267-8310 - Fax 423-267-8065 - www.marshmma.com

SportGroup Company Handbook

SportGroup provides as our Affirmative Action Plan.

2680 Abutment Rd, Dalton, GA 30721
(800) 723-TURF (8873) help@astroturf.com

Form **W-9**
(Rev. March 2024)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give form to the requester. Do not send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type. See *Specific Instructions* on page 3.

1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)

APT Acquisition and Construction Corporation

2 Business name/disregarded entity name, if different from above.

AstroTurf Corporation

3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor ☑ C corporation ☐ S corporation ☐ Partnership ☐ Trust/estate

☐ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) . . . . .

Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner.

☐ Other (see instructions)

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any)

Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any)

(Applies to accounts maintained outside the United States.)

3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions . . . . . ☐

5 Address (number, street, and apt. or suite no.). See instructions.

2680 Abutment Rd SE

Requester's name and address (optional)

6 City, state, and ZIP code

Dalton, GA 30721

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

			–			–				

or

Employer identification number

8	1	–	2	4	7	9	8	4	9

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here **Signature of U.S. person** Tama F Nelson **Date** 1/8/2025

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
01/02/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Aon Risk Services Central, Inc.
St. Louis MO Office
4220 Duncan Avenue
Suite 401
St Louis MO 63110 USA

CONTACT NAME:
PHONE (A/C. No. Ext): (866) 283-7122 **FAX (A/C. No.):** (800) 363-0105
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A:	Chubb European Group SE	AA1120810
INSURER B:	Federal Insurance Company	20281
INSURER C:	The Cincinnati Insurance Company	10677
INSURER D:	Great American Alliance Ins Co	26832
INSURER E:		
INSURER F:		

INSURED
Astro Turf Corporation
2680 Abutment Rd SE
Dalton GA 30721 USA

COVERAGES **CERTIFICATE NUMBER:** 570110299165 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

Limits shown are as requested

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
B	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [X] PRO-JECT [ ] LOC OTHER:			99509744	01/01/2025	01/01/2026	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG BI/Property Damage Deductible	$1,000,000 $1,000,000 $10,000 $1,000,000 $2,000,000 $2,000,000 $200,000
C	**AUTOMOBILE LIABILITY** X ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY			ENP0400594	01/01/2025	01/01/2026	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$1,000,000
B	X **UMBRELLA LIAB** X OCCUR **EXCESS LIAB** CLAIMS-MADE DED RETENTION			78195586	01/01/2025	01/01/2026	EACH OCCURRENCE AGGREGATE	$10,000,000 $10,000,000
D	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N [N] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		WCE65873604	01/01/2025	01/01/2026	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE-POLICY LIMIT	 $1,000,000 $1,000,000 $1,000,000
A	E&O - Professional Liability - Primary			DECANA43728	01/01/2024	12/31/2025	Aggregate Limit	$5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

As respects to Policy No. DECANA43728 Professional Liability, Aon Commercial Risk (U.S.) is generating and distributing this certificate in an administrative capacity. Aon Deutschland is the broker for the defined policy. Professional liability limits are shown in Euros.Evidence of Coverage

CERTIFICATE HOLDER

Astro Turf Corporation
2680 Abutment Road
Dalton GA 30721 USA

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Aon Risk Services Central, Inc.

Holder Identifier :

Certificate No : 570110299165

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THE WORLD'S MOST CERTIFIED TRACKS.

From local to Olympic, choose from the widest track range

SMART
ATHLETE PERFORMANCE DIAGNOSTIC SYSTEM

GET SMART

THE WORLD'S ONLY SMART SURFACE.

Ask for SMART.
Available exclusively from Rekortan.

REKORTAN TRUSTED FOR OVER 50 YEARS

Rekortan®

TRUSTED & CHOSEN FOR OVER 50 YEARS.

REKORTAN, THE ORIGINAL SYNTHETIC TRACK.

Rekortan was first installed at the Olympic Stadium, Berlin in 1969 and was later used for the 1972 Munich Olympic Games. Since then, Rekortan has gained a reputation as having the perfect balance - giving speed to sprinters and energy return to distance runners. Today, more than 50 years later, Rekortan has the most World Athletics certified tracks and is leading the industry with its innovation in Green and SMART technology.

WHY CHOOSE REKORTAN?

1. MOST CERTIFIED TRACKS IN THE WORLD

- 25% of all World Athletics certified tracks are by Sport Group
- We have installed more than 300 World Athletics Certified tracks
- More than 2 million square meters of Rekortan tracks are installed annually around the world.

2. CHOSEN FOR 4 DIAMOND LEAGUE VENUES:

- Qatar SC Stadium, Doha
- Stockholm Olympic Stadium, Sweden
- Gateshead International Stadium, Gateshead, UK
- Stadio Luigi Ridolfi, Florence Italy

3. GREENEST TRACKS ON THE PLANET

Rekortan Gel is made from 88% renewable/recyclable content, making our Gel Series systems the most environmentally friendly track solutions on the planet.

4. TRUST THE CHAIN

Rekortan is owned by Sport Group, the largest company dedicated to sport surfaces in the world. Sport Group has the only fully integrated supply chain in the track industry. This means that Rekortan tracks have unprecedented levels of quality control. We control all aspects of our product, from the laboratory to the quality and harvesting approach of the raw materials, and our manufacturing and installation processes. Rekortan is made in ISO certified factories.

5. WORLD LEADING INSTALLATION

Sport Group companies AstroTurf and Polytan are world leaders in track installation and all of our agents have been pre-qualified and attend regular trainings and technical sessions to ensure they deliver the same high-quality workmanship and warranties as dealing direct.

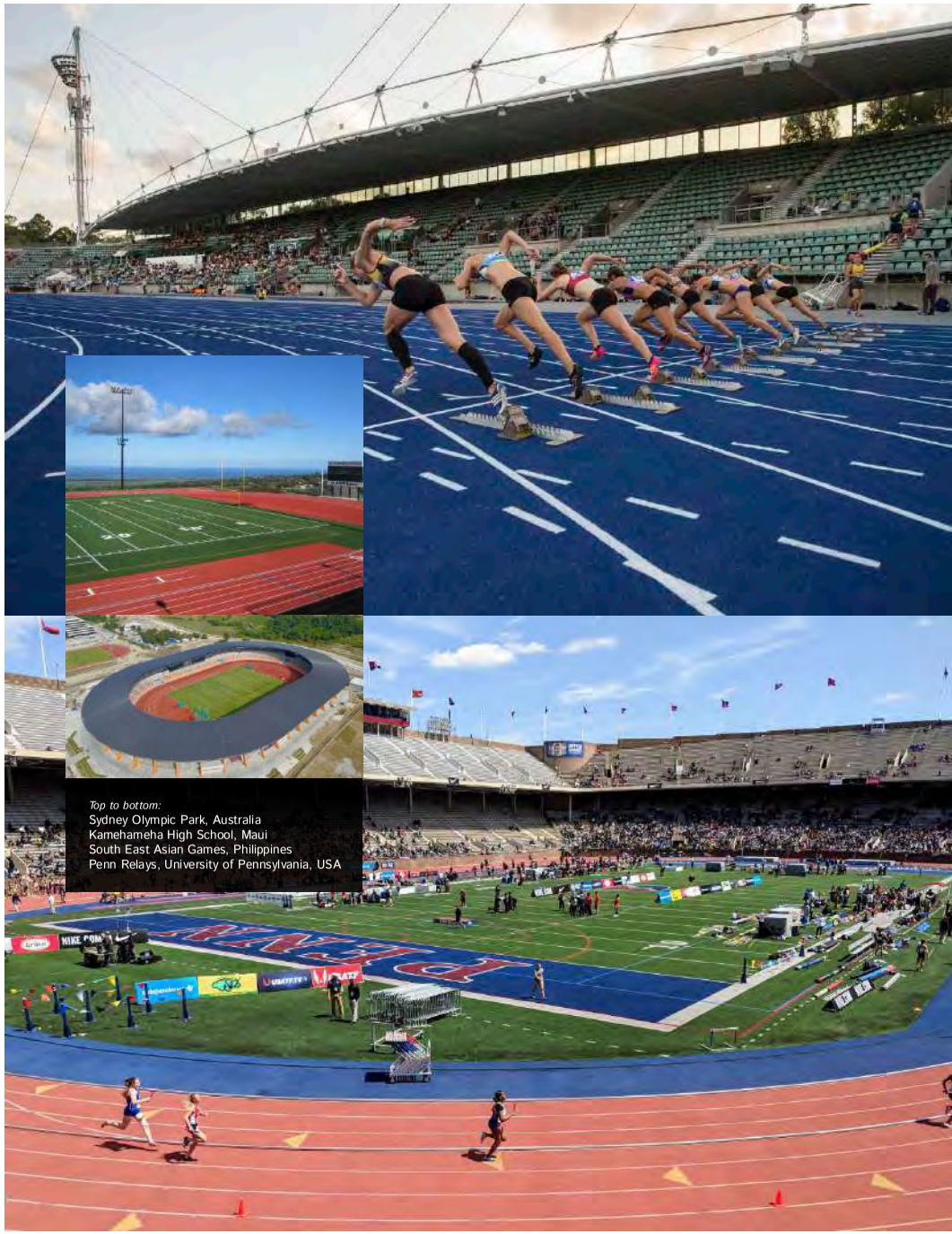
6. NO ONE INVESTS MORE IN R&D

Sport Group invests more in R&D than any other business in the industry; our focus is on:

- Improving athlete and environmental welfare
- Extending the performance life of our products
- Connecting surfaces to digital technology.

7. SMART ATHLETES RUN FASTER

All Rekortan tracks can be embedded with SMART technology. Our SMART system provides the most accurate and advanced diagnostics in the industry.



Top to bottom:
Sydney Olympic Park, Australia
Kamehameha High School, Maui
South East Asian Games, Philippines
Penn Relays, University of Pennsylvania, USA



FEATURE COMPARISON CHART

The below quick reference chart demonstrates the features of the Rekortan systems.

	BASEMAT			SAND-WICH	FULL PUR			GEL			
Features	B	BS	BSS	M	M99	PUR	PUR E	G10 (T)	G10 (F)	G13 (T)	G13 (F)
World Athletics Certified		●	●	●	●	●	●			●	●
Seamless	●	●	●	●	●	●	●	●	●	●	●
Free of Mercury, Lead and other heavy metal	●	●	●	●	●	●	●	●	●	●	●
Force Reduction Technology		●	●	●	●	●	●	●	●	●	●
Permeable	●	●									
Impermeable			●	●	●	●	●	●	●	●	●
Full depth PU and EPDM rubber							●				
Made from renewable resources				●	●	●	●	●	●	●	●
Gel Technology								●	●	●	●
Surface textures											
Paved	●										
Embedded				●	●	●	●	●	●	●	●
Encapsulated		●	●	○	○	○	○	○	○	○	○

(T) = Traditional (F) = Fast ● = Standard ○ = Optional

COLORS

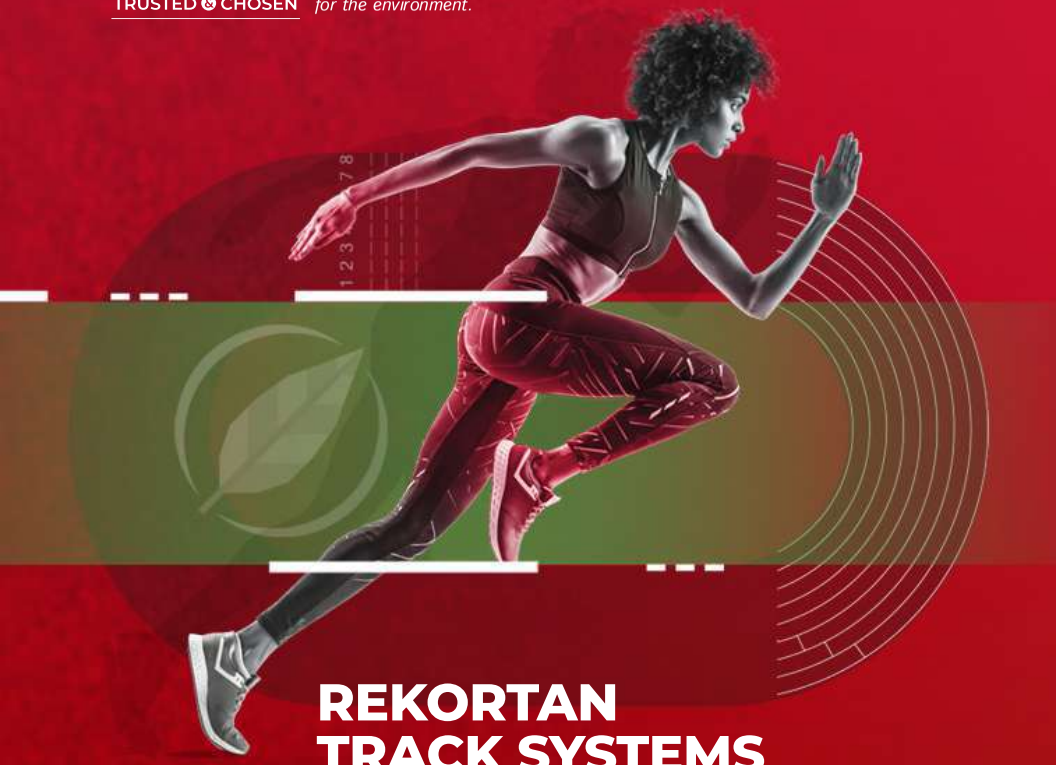
Rekortan track systems come in a range of colors. Additional and special colors are available on request.

Red | Black | Rainbow Blue | Berlin/ Hertha Blue | Signal Green | Charcoal | Steel Blue

Rekortan

GEL SERIES. 88% RENEWABLE & RECYCLED MATERIAL.

TRUSTED & CHOSEN *for the environment.*

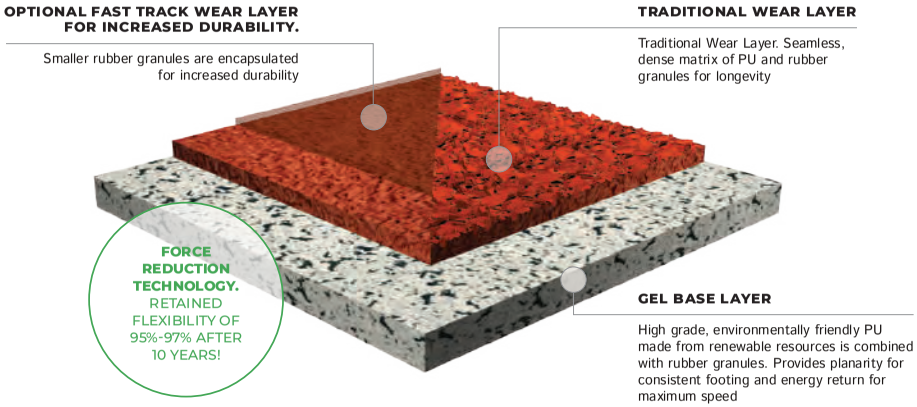


REKORTAN TRACK SYSTEMS

Rekortan offers tracks in five categories, which cover all track requirements from community tracks to elite stadiums. Following is a summary of the key features and benefits. Please speak to your local Rekortan installer about the best solution for you.

GEL SERIES

THE WORLD'S GREENEST TRACKS.



GEL SERIES

G10 | G13

The Gel Series is the market leader in environmental and athlete welfare.

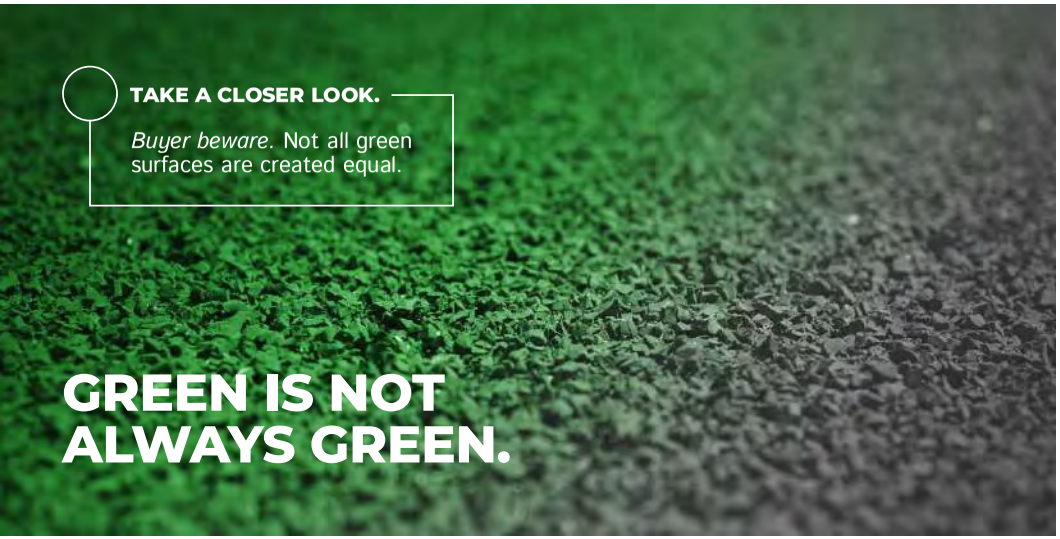
Rekortan Gel is the world's most environmentally friendly track system PLUS our Gel Series tracks keep their retained flexibility of 95%-97% for over 10 years. This is the best force reduction technology on the market.

This highly innovative product range is offered as a G13 and G10 system. Purchase options include the Traditional System or adding a Fast Track Wear Layer for increased durability.

HIGHLIGHTS

This dual durometer (G13) 13mm & (G10) 10mm impermeable system features 2 specialized layers, with a durable wear layer and a unique environmentally friendly force reduction base.

- (G13) World Athletics Certified System. (G10) Meets all World Athletics performance criteria except thickness
- Featuring a unique green layer, based on 70% renewable polyurethane, resulting in a total of 88% renewable/ recyclable content
- Force reduction and energy return sustained over a greater temperature range than typical PU systems
- Formulated to resist UV degradation in the world's harshest climates
- Top wear layer is poured-in-place and embedded to a seamless, predictable surface that resists spikes
- Hydrophobic formulation repels water, enabling these surfaces to resist water damage.



REKORTAN GEL VS COMPETING PLANT BASED PUR.

Don't let the 'GREEN' title fool you, not all track products promoted as being 'green technology' are as green as they first appear.

ENERGY EFFICIENT PROCESS

It's one thing to promote a surface as being made from recycled or renewable materials, but if the treatment of the raw materials and the production processes are not, it negates any green benefits.

Rekortan tracks are manufactured out of ISO certified factories in three locations around the globe for a reduced and sometimes carbon positive footprint. Rekortan Gel is a unique product, which is made from simply plant oil, with an added enzyme which creates a chemical reaction to produce the world's greenest track. No damaging chemicals, air polluting factories or electricity is needed to create this break-through product.

GREEN PERFORMANCE

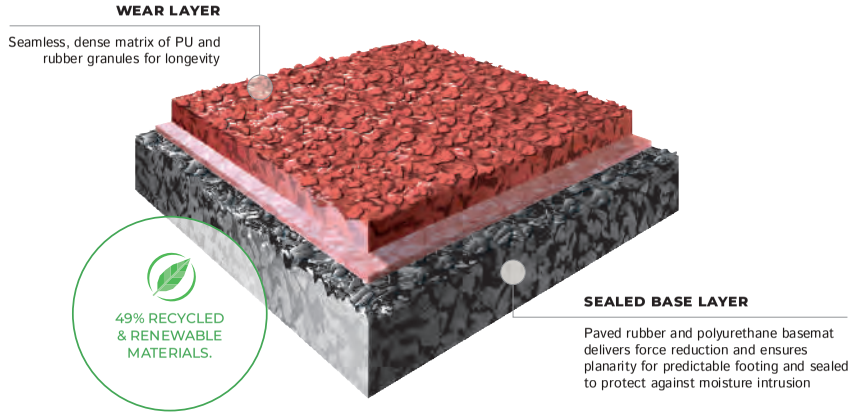
Many competing plant-based products, deform to dissipate the force of impact, which means quite quickly they can become hard and lose their flexibility. Rekortan Gel Series tracks have a unique liquid inside a solid matrix, which dissipates force evenly and does not break down. This means our tracks will keep retained flexibility of 95%- 97% for up to 10 years.

REKORTAN GEL		PLANT BASED PUR	
Is a Gel - retains its solid shape and liquid core	✔	**Is not a Gel**	✖
Superior energy dissipation	✔	Deforms upon applied force	✖
Temperature stability	✔	Soft when warm, hard when cold	✖
Easy to adjust and consistent	✔	Sensitive installation and levels must be exact	✖
Meets World Athletics performance requirements at 13mm and 10mm	✔	Unknown, unproven system	✖
Holds physical properties 10+ years	✔	Unknown, unproven system	✖
Resists Water - Hydrophobic	✔	More sensitive to water	✖

Rekortan

SANDWICH SERIES

THE WORLD'S MOST CERTIFIED TRACK.



SANDWICH SERIES

M

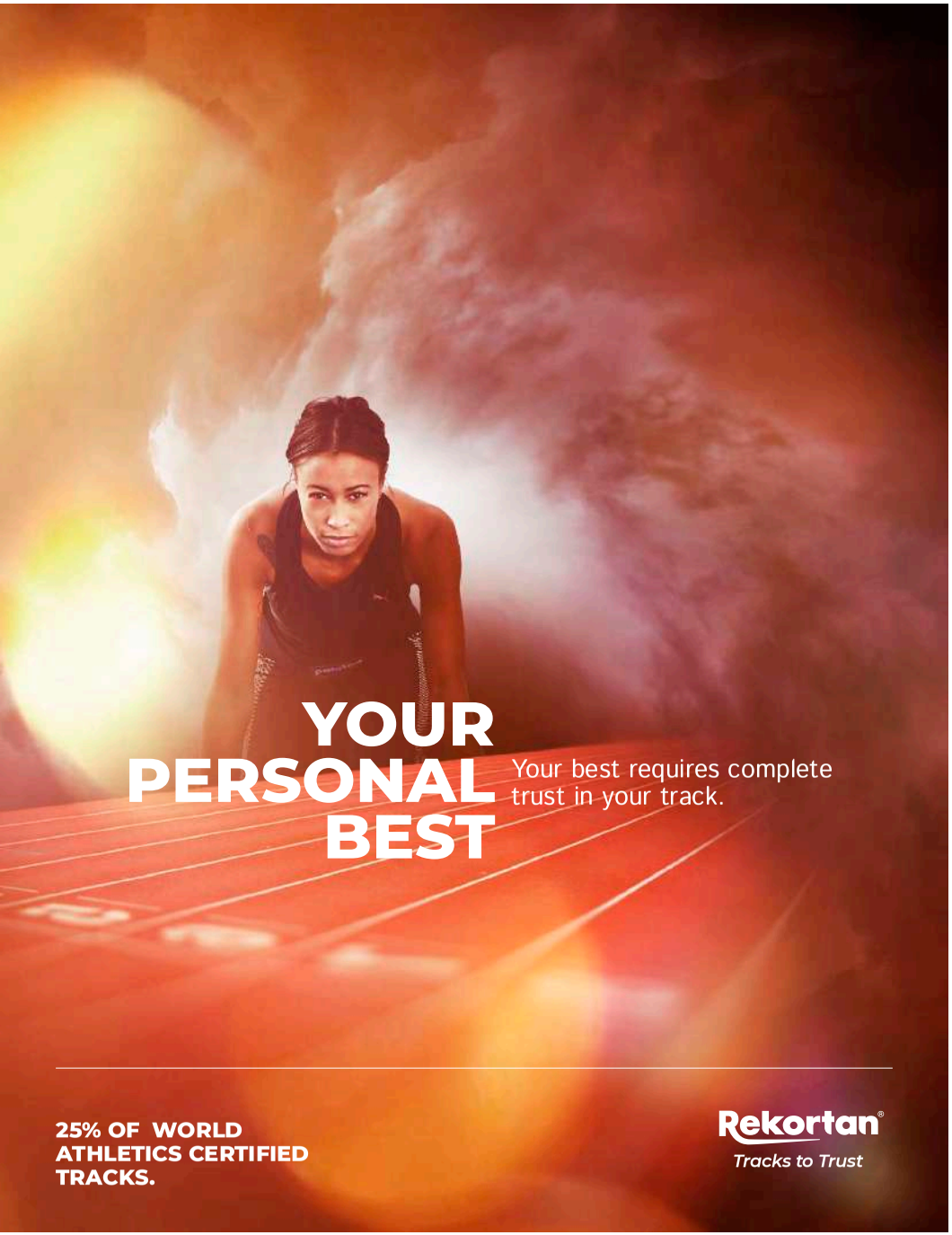
Trusted by some of the world's biggest stadiums and events around the world, Rekortan M is an ideal training and competition surface. Made from 49% recycled and renewable materials, it is also a greener choice. It is a simple two-layer system, which is durable and high performing.

HIGHLIGHTS

This impermeable sandwich system features 2 distinct layers – durable wear layer and sealed paved-in-place base layer.

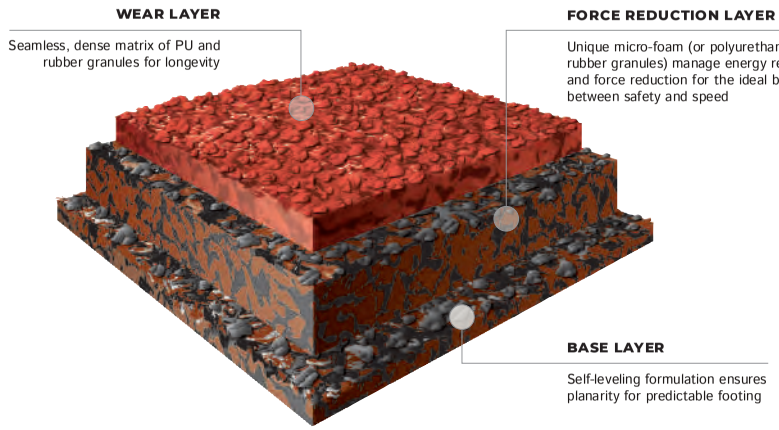
- World Athletics Certified System - Most Certified Track!
- Impermeable, two-component paved-in-place sandwich style track, high energy return
- Formulated to resist UV degradation in the world's harshest climates
- Top wear layer is poured-in-place and embedded to a seamless, predictable surface that resists spikes
- Made from 49% recycled and renewable material, green footprint.


Sandwich Series M track at Manchester Regional Arena, UK



FULL PUR SERIES

FOR HIGH SPEED.



FULL PUR SERIES

M99	PUR	PUR E

High speed series of systems. Trusted & chosen by the Penn Relays since 1988 and 2018 Asian Games.

This track system is fast and perfect for venue owners hosting elite events.

This trusted product range is offered in three different systems; M99, PUR and PUR E. PUR E is available globally in 15mm depth, featuring important force reduction layers for optimized energy return.

All Full PUR Systems are World Athletics Certified and made with the world's highest quality raw materials.

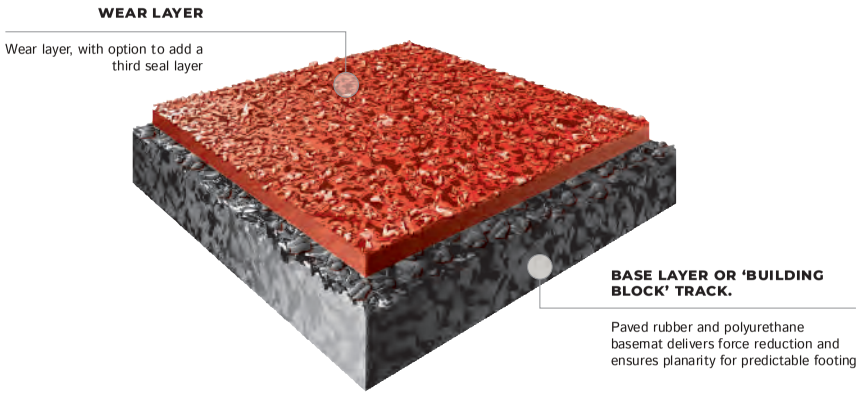
HIGHLIGHTS

These 15mm, impermeable full PUR systems feature 3 specialized layers, with a durable wear layer and 2 layers of polyurethane and rubber granules (PUR) or a unique micro-foam (M99) force reduction layer for optimized energy return.

- World Athletics Certified Systems
- Unique second layer (polyurethane micro-foam or polyurethane and rubber granules) for reduced impact and increased energy return to the athlete
- Formulated to resist UV degradation in the world's harshest climates
- Top wear layer is poured-in-place and embedded to a seamless, predictable surface that resists spikes
- M99 globally recognized as the "Fast Tracks" since 1969
- PUR E, available with full depth polyurethane and EPDM rubber, no SBR.

BASEMAT SERIES

BUDGET FRIENDLY.



BASEMAT SERIES

B	BS	BSS

'Building block' tracks, budget friendly with good force reduction. Ideal for regional stadiums, schools, community & multipurpose.

This series offers three different systems: B, BS and BSS.

The B system has the advantage of providing you with a strong polyurethane base which you can enhance as your budget allows, giving you multiple advantages over traditional Latex options. Our BS and BSS systems are both 13mm permeable, budget conscious systems which offer base and wear layers providing good force reduction benefits and come with World Athletics Certification quality.

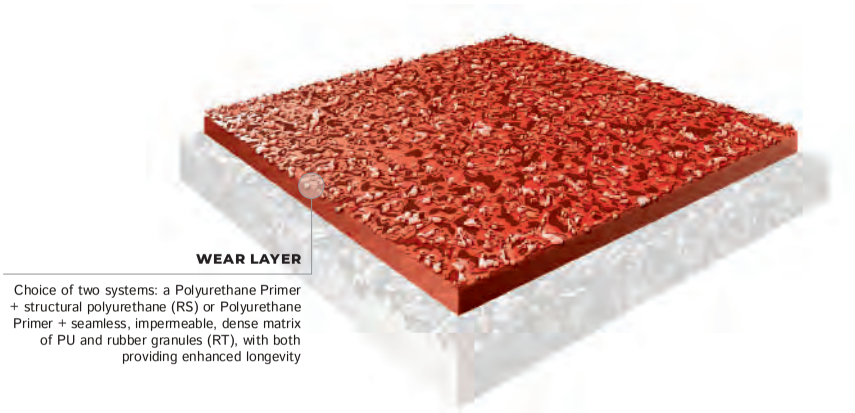
HIGHLIGHTS

Basemat Series includes a single layer, 13mm min, permeable paved-in-place base layer "Building Block" track, which can be enhanced as budgets allows, as well as two and three layer 13mm permeable, budget conscious products (permeable (BS) and impermeable (BSS)) featuring a paved-in-place base layer and encapsulated wear layer and option for a seal layer on the BSS system.

- World Athletics Certified System (BS & BSS)
- B and BS are permeable. BSS has a impermeable basemat structural coat system
- High energy return
- Budget friendly
- Top wear layer is encapsulated, which binds rubber (no shedding), spike resistant, enhanced longevity.

RE-SURFACE SERIES

PROLONG TRACK LIFE.



RE-SURFACE SERIES

RS	RT

Designed to prolong the life of an existing track or give additional resilience, the Re-surface Series is a great product for keeping your track performing for longer.

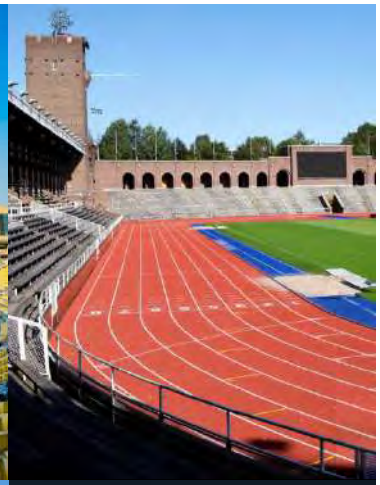
Tracks can be re-topped or re-surfaced to extend your track's life, giving renewed flexibility for improved performance and player welfare.

Installing the Re-Surface Series is a more cost-efficient approach, to investing in a new track and will breathe new life into your track for many years to come.

HIGHLIGHTS

- Add additional performance and resilience to the surface
- Prolong the life of existing track
- Choose a Wear Layer, made from Polyurethane Primer + structural polyurethane (RS) or Polyurethane Primer + seamless impermeable, dense matrix or PU and rubber granules for enhanced longevity.
- Rejuvenate existing track, premium colors available
- Can be built to World Athletics standards.



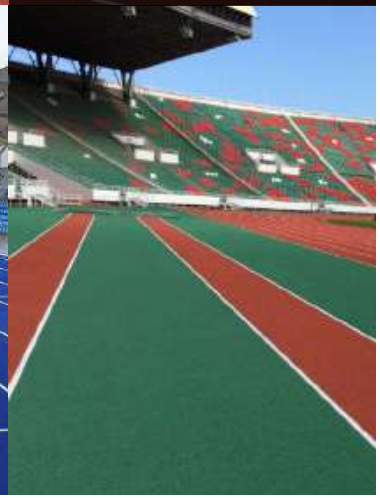




TRUSTED & CHOSEN

FOR THE DIAMOND LEAGUE

Clockwise from top left:
Qatar, Stockholm, Morocco, Manchester, Florence





SMART

THE WORLD'S ONLY SMART TRACK. MORE ACCURATE THAN GPS. EASIER THAN CAMERA SYSTEMS.

Athletes who train on Rekortan tracks can now benefit from our SMART embedded technology, where a runner is literally 'in touch' with the track. Other facilities might have a technology overlay such as cameras, but our actual tracks are smart, which makes them unique and the most advanced in the industry.

SMART ATHLETES RUN FASTER

SMART uses magnetic gates embedded in the track which connect to a sensor or smartphone worn by the athlete. This means competitive athletes and coaches are armed with the most accurate and advanced diagnostic information on force, agility, speed and endurance available.

Our actual tracks are smart, which makes them unique and the most advanced in the industry

BE A SMART COACH EVERY DAY.

The SMART system is invisible and always on; there are no wires, force plates, laboratories, or cameras. For facilities there is no set up and no maintenance. Your track will be Smart for life.

Champion athletes such as Tatjana Pinto (Germany), Patrick Schneider (Germany) train on Rekortan SMART. They seek out every advantage; they know that smart athletes run faster.

EVERY REKORTAN TRACK IS SMART

SMART technology is available for all Rekortan tracks, we offer endless configurations and facilities can upgrade to suit their needs. This means with the introductory package and the free smartphone app, everyone can be connected to their local track at no cost.

The SMART app connects to the track and gives amateur runners distance, time/split times and interval data for speed and steps, which encourages them to run more and improve their fitness. The SMART app is free so every facility can offer the SMART experience to their clubs and community.

SMART tracks were developed by Humontion, Sport Group's technology partner and are exclusively available with Rekortan tracks.

Rekortan®



THE WORLD'S MOST CERTIFIED TRACKS

AstroTurf Corporation

THE WORLD LEADER IN SPORTS & RECREATION SURFACES

AstroTurf FIELDS | Rekortan TRACKS | Laykold COURTS

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help@astroturf.com www.astroturf.com @AstroTurfUSA



BESTWAY
PURCHASING PROGRAM

You want to purchase
but need to find the
best way to do it.

COOPERATIVE PURCHASING

AstroTurf® FIELDS

Rekortan® TRACKS

Laykold® COURTS

SYNLAWN® LANDSCAPE

Welcome to the BESTWAY Cooperative Purchasing Program



Dear Valued Partners,

I am thrilled to welcome you to the world of cooperative purchasing through the Best Way Purchasing Program by AstroTurf Corporation. My name is Kim Summers, and I have had the privilege of serving AstroTurf for over twenty years, gaining invaluable experience in the field of sports surfacing.

As the Cooperative Purchasing Director, I am here to be your guide, your advocate, and your partner in making the best choices for your sports surface needs. It is my pleasure to share my expertise with you, ensuring that you get the most out of our program.

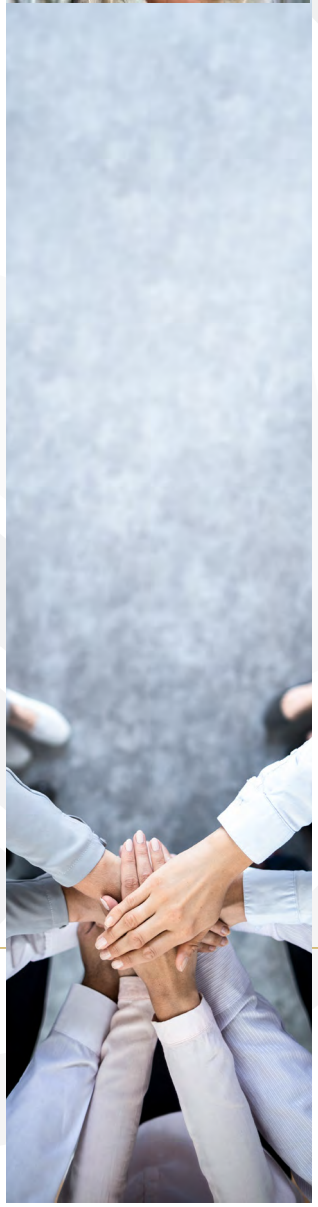
Thank you for considering AstroTurf Corporation and the Best Way Purchasing Program. I look forward to assisting you in your journey towards achieving the best in sports surfacing.

What is Cooperative Purchasing?

Efficiency, Savings and Simplicity Combined.

Cooperative purchasing is a strategic approach to procurement that allows organizations to join forces, streamline their purchasing processes, and achieve significant cost savings. It's the art of working together to make the best choices for your sports surface needs.

By pooling resources and expertise, you can simplify the acquisition process, leverage the collective buying power, and access top-notch sports surfaces from leading brands—all while reducing administrative burdens and costs.



Kim Summers
Sport Group Americas
Director of Cooperative Purchasing
kim.summers@astroturf.com
706-264-1314 | astroturf.com

One Stop Solution
for Your Surfacing Needs

AstroTurf – The First Name in Turf

AstroTurf, a name synonymous with quality, has been leading the way in sports surface innovation for decades. Our commitment to excellence and continuous improvement has made us the trusted choice for sports venues around the world.

- **Superior Quality:** Unmatched durability and performance.
- **Proven Success:** Countless successful installations worldwide.
- **Customer Satisfaction:** Hear from those who chose AstroTurf and never looked back.

Laykold – The Official Surface of the US Open

Laykold, the most innovative court brand, is all about superior performance. With Laykold courts, athletes can give their best, knowing they have the best surface underneath their feet.

- **Precision Engineering:** Engineered for peak athletic performance.
- **Performance:** Offering the right levels of force reduction and balanced with the optimal energy return levels.
- **Proven Pace Precision and Consistency:** Our dedication to player comfort and environmental sustainability are why major events trust and choose Laykold.

Rekortan – The Most Certified Tracks in the World

Rekortan, another proud member of the AstroTurf Corporation family, is synonymous with precision in athletics. Our tracks have been trusted and chosen by elite facilities for over 50 years.

- **Athlete-Preferred:** Chosen by elite athletes for consistent performance.
- **Track Record of Success:** Rekortan has the most Olympic records
- **Trusted Installations:** From stadiums to training facilities, Rekortan excels.

SYNLawn - Your Landscape Dreams Hassle Free

SYNLawn, the premier landscape turf brand in the industry, brings beauty and durability to any space.

- **Natural Aesthetics:** Enjoy lush, realistic grass without the maintenance.
- **Built to Last:** SYNLawn's durability stands up to the test of time.

BESTWAY PURCHASING PROGRAM

AstroTurf FIELDS · Rekortan TRACKS · Laykold COURTS · SYNLAWN LANDSCAPE

COOPERATIVE PURCHASING

You want to purchase but need to find the best way to do it.

Top 10 reasons for using the BESTWAY Purchasing Program

1. **COST SAVINGS**:
Cooperative purchasing programs enable organizations to leverage collective buying power, resulting in lower prices, discounts, and reduced overall procurement costs.

2. **EFFICIENCY:**
Streamlined procurement processes reduce administrative burdens, paperwork, and the time required to select and contract with vendors.

3. **ACCESS TO HIGH-QUALITY SUPPLIERS:**
Cooperative programs often pre-qualify suppliers, ensuring that organizations have access to reputable, reliable vendors.

4. **VOLUME DISCOUNTS:**
Bulk purchasing through cooperatives allows organizations to benefit from volume discounts that may not be available when buying individually.

5. **MARKET KNOWLEDGE:**
Cooperative administrators often have deep industry knowledge, providing members with insights into market trends, best practices, and emerging technologies.

6. **SIMPLIFIED PROCUREMENT:**
Cooperative purchasing simplifies the procurement process, making it easier for organizations to acquire the goods and services they need.

7. **COMPETITIVE ADVANTAGE:**
Access to cost-effective resources allows organizations to allocate more resources to their core mission and gain a competitive edge.

8. **DIVERSE SUPPLIER OPTIONS:**
Cooperative programs typically offer a wide range of suppliers and products, allowing organizations to find the best fit for their specific needs.

9. **COMPLIANCE AND ACCOUNTABILITY:**
Many cooperative programs have strict vendor performance monitoring and accountability measures, ensuring that vendors meet their contractual obligations.

10. **FASTEST ALTERNATIVE:**
Cooperative purchasing offers the most efficient and rapid way to purchase a surface. All of the hard work and qualifying has already been taken care of.

OVERALL...

Cooperative purchasing can significantly enhance an organization's procurement capabilities, leading to cost-effective, efficient, and high-quality acquisitions.

BESTWAY PURCHASING PROGRAM
AstroTurf FIELDS Rekortan TRACKS Laykold COURTS SYNLAWN LANDSCAPE



Our **Partners**

Canada
canoeprocurement.ca

California
dgs.ca.gov

Pennsylvania
dgs.pa.gov/costars

All US States
1gpa.org

All US States
omniapartners.com

All US States
sourcewell-mn.gov

AEPA – MEMBER STATES WITH CONTRACTS ARE LISTED BELOW.

CalSave
CA ▪ calsave.org

Capitol Region Education Council
CT / MA / ME / NH / NY / RI / VT ▪ crec.org

PAEC Florida Buy
FL ▪ floridabuy.org

Cooperative Purchasing Agency
GA ▪ cpa4schools.com

Wilson Education Center
IN ▪ wesc.k12.in.us

Greenbush – The S.E. Kansas Education Center
KS ▪ greenbush.org

Green River Regional Educational Cooperative
KY ▪ grrec.org

Oakland Schools
MI ▪ oakland.k12.mi.us

Cooperative Purchasing Connection
MN ▪ purchasingconnection.org

Education Plus
MO ▪ edplus.org

Montana Cooperative Services
MT ▪ mtcoop.org

North Dakota Educators Service Cooperative
ND ▪ ndesc.org

Educational Service Unit Coordinating Council
NE ▪ esucc.org

CES – Cooperative Educational Services
NM ▪ ces.org

Council of Educational Purchasing Consortia
OH ▪ ocepc.org

Carolinas Alliance 4 Innovation
SC ▪ ca4i.com

TexBuy
TX ▪ texbuy.net

Fairfax County Public Schools
VA ▪ fcps.edu

King County Directors' Association
WA ▪ kcda.org

CESA Purchasing
WI ▪ cesapurchasing.org

Mountain State Educational Services Cooperative
WV ▪ mountainstateesc.com

NEW BOCES N.E. WY Board of Educational Services
WY ▪ newboces.com

Our Customers Say the ***Nicest Things!***

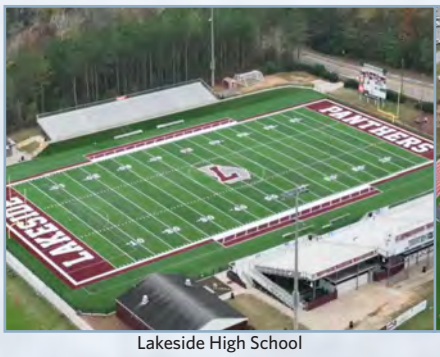
COLUMBIA COUNTY SCHOOL DISTRICT

"In 2020, we faced the challenge of revitalizing our overused fields. Upon learning of Burke County's successful stories with their synthetic turf fields, I sought guidance from Todd Wiggins at Sports Turf Company. Todd's expertise proved invaluable as he walked me through the various options, weighing the pros and cons of synthetic turf.

With a pressing timeline to avoid disrupting our sports schedules, Todd suggested leveraging a cooperative contract for procurement efficiency. Following his advice, we utilized AstroTurf's Sourcewell Contract, streamlining the purchasing process significantly. Had we pursued the traditional route, involving posting, a minimum of 4-28 days on the Georgia Procurement Registry, pre-bid meetings, and board approvals, our project start could have been delayed by three months, impacting numerous students' activities.

Opting for the cooperative contract not only met our deadlines but also left everyone involved satisfied. I can't stress enough the benefits of cooperative contracting, nor can I speak highly enough of Sports Turf Company and AstroTurf's professionalism throughout the process".

Cliff Sanders, *Director of Facilities Maintenance & Operations for Columbia County School District*



Lakeside High School



Harlem High School



Greenbriar High School



Greentown High School



Evans High School





Nottingham Tennis Court, Lincoln Tennis and Pickleball Court

Syracuse City School District

"Using AstroTurf's Sourcewell contract for our Nottingham Tennis Court and Lincoln Tennis and Pickleball Court rehabilitation projects was easy and a rousing success for the Syracuse City School District. We saved three months of bidding and contract award time and AstroTurf completed these turnkey projects quickly with a high-quality product. We have received several accolades from our students, staff, and the community for this fine work".

Thomas C. Ferrara, *P.E., Director of Facilities III*



Anne Arundel County Public Schools - Joe Canon Stadium

Anne Arundel County Public Schools

"Anne Arundel County Public Schools (AACPS) has been using a cooperative purchasing agreement to obtain design and construction services for new artificial turf fields and replacement of existing fields with AstroTurf since 2012. We have found this method of direct purchasing to save both time and money. In the past, these projects had been design-bid-build, which added months, if not a year to the total project delivery time. Astroturf also handles the entire construction process which eliminates sub-contractor markups, which saves costs. The process also allows AACPS to specify exact products that are not subject to substitutions during normal competitive bid processes. AACPS has been very satisfied with performance of Astroturf in their turnkey approach to meet the needs of our student and community athletics".

Gregory J. Stewart, *P.E., Senior Manager of Planning*

You want to purchase but need to find the best way to do it.

BESTWAY PURCHASING PROGRAM

AstroTurf FIELDS Rekortan TRACKS Laykold COURTS SYNLAWN LANDSCAPE

BESTWAY PURCHASING PROGRAM

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COOPERATIVE PURCHASING

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US DEPARTMENT OF AGRICULTURE

ROOTZONE GT-B SERIES

THE ONLY CERTIFIED USDA BIOPREFERRED SPORTS TURF SYSTEM IN THE INDUSTRY

AstroTurf®

astroturf.com

USDA BIOPREFERRED PROGRAM



ABOUT THE BIO•PREFERRED PROGRAM

The BioPreferred Program is a USDA-led initiative that aims to facilitate the development and expansion of markets for biobased products. The increased development, purchase, and use of biobased products will reduce our nation's reliance on petroleum and increase the use of renewable agricultural materials.

THE BENEFITS OF BIO•BASED PRODUCTS

Biobased products provide all the benefits as conventional products: they are cost-comparative, readily available (made by small companies and large corporations), and perform as well or better than their petroleum-containing counterparts.

Biobased products also help us increase our use of renewable resources while decreasing our use of non-renewable resources, such as petroleum. As found in the 2015 report, "An Economic Impact Analysis of the U.S. Biobased Products Industry," Biobased products displace around 300 million gallons of petroleum per year in the U.S., which is the equivalent of taking 200,000 cars off the road.

There are also considerable economic benefits from biobased products. According to a report USDA released in 2018, the biobased economy contributes a total $459 billion to the U.S. economy each year, with 4.65 million jobs supported, directly and indirectly, by the biobased economy.

UNDERSTANDING THE USDA BIO•PREFERRED PROGRAM

The USDA BioPreferred Program is a federal initiative designed to increase the purchase and use of biobased products. These products are composed wholly or significantly of biological ingredients, agricultural, marine, or forestry materials. The program's primary goals are to reduce the nation's reliance on petroleum, increase the use of renewable agricultural resources, and contribute to reducing adverse environmental and health impacts.

KEY BENEFITS OF THE USDA BIO•PREFERRED PROGRAM

Environmental Protection:
Promotes the use of renewable resources and helps in reducing pollution and carbon footprint.

Economic Growth:
Supports rural economies by creating new jobs in farming and manufacturing.

Health Benefits:
Encourages the use of products that are safer for both human health and the environment. By certifying products like AstroTurf's RootZone GT-B Series, the USDA BioPreferred Program recognizes their commitment to sustainability and innovation in developing turf solutions that are not only high-performing but also environmentally responsible.

ROOTZONE GT-B SERIES
A SUSTAINABLE CHOICE

AstroTurf's RootZone GT-B Series is a revolutionary product that combines advanced turf technology with sustainable materials. The key to its sustainability lies in our innovative RootZone fibers and eco-friendly backing, both of which incorporate 11% biobased, sustainable materials. These components not only enhance the turf's performance and longevity but also contribute to a greener and more sustainable future.

AVAILABLE SYSTEMS:

- ROOTZONE 3D MONO 60 GT-B
- ROOTZONE 3D3 BLEND 60 GT-B
- ROOTZONE 3D3 BLEND HD 60 GT-B
- ROOTZONE 3D3 BLEND 52 GT-B

HERE'S HOW ROOTZONE GT-B STANDS OUT

1. **Sustainable Material Integration:** The RootZone GT-B Series is crafted using 11% of materials that are renewable and biobased. This not only helps in reducing environmental impact but also supports the global movement towards greener alternatives in industrial products.
2. **Trionic Plus Fiber Technology:** Our proprietary Trionic Plus fiber offers unparalleled strength and longevity. This advanced fiber technology ensures that the turf maintains its appearance and functionality over time, even under heavy use, making it an excellent choice for sports fields, playgrounds, and commercial landscapes.
3. **Enhanced Safety and Comfort:** Safety and player comfort are paramount. The RootZone system, featuring a thatch layer, helps in reducing the impact on athletes, thus minimizing injuries. It also provides a more natural feel and better traction, enhancing the overall playing experience.
4. **Cost-Effective and Low Maintenance:** RootZone GT-B Series is designed for minimal maintenance, reducing the need for water, fertilizers, and pesticides. This leads to significant cost savings over the product's lifecycle and contributes to the reduction of environmental pollutants.

THE ASTROTURF ROOTZONE SYSTEM

A Revolution in Turf Technology
AstroTurf's RootZone system is an innovation designed to replicate the natural root zone of real grass. It consists of a thatch layer integrated into the turf system, providing numerous benefits:

1. **Optimal Performance:** The RootZone system helps in maintaining the stability and uniformity of the playing surface. This is crucial for sports applications, where consistent performance is key.
2. **Improved Durability:** By mimicking the natural root structure, the RootZone system provides added resilience, allowing the turf to recover quickly from heavy use. This leads to a longer lifespan for the turf.
3. **Enhanced Drainage and Hygiene:** The RootZone layer promotes efficient drainage, reducing water pooling and enhancing the hygiene of the surface. This is particularly important in regions with heavy rainfall or for installations in areas that require frequent cleaning.
4. **Environmental Benefits:** Incorporating sustainable materials and requiring fewer resources for maintenance, the RootZone system significantly lowers the ecological footprint of the turf installation.

Conclusion:

Leading the Way in Sustainable Turf Solutions
AstroTurf's commitment to sustainability and innovation is exemplified in the RootZone GT-B Series. As part of the USDA BioPreferred Program, this turf product sets a new standard for eco-friendly, high-performance turf solutions. Whether for athletic fields, playgrounds, or commercial landscapes, the RootZone GT-B is designed to meet the highest standards of quality and sustainability.

Join us in making a positive impact on the environment and embrace the future of sustainable turf with AstroTurf's RootZone GT-B Series.

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 11%

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 11%
FP

A PRODUCT OF THE ASTROTURF GREEN TECHNOLOGY PROGRAM



AstroTurf®

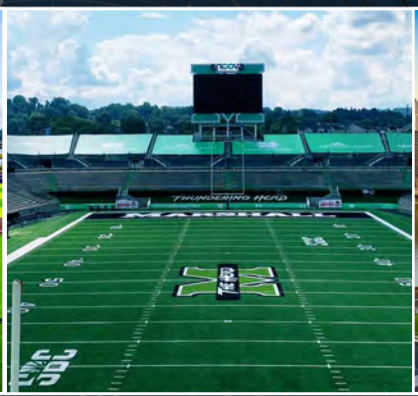
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AstroTurf SINCE 1965

THE ICON THAT INVENTED THE INDUSTRY









ASTROTURF.COM









about AstroTurf®

AstroTurf — It's one of the most iconic brands in sports.

While everyone recognizes the name, *not everyone knows the history!*

AstroTurf borrows its name from the Houston Astrodome, where it was first used in a professional sports venue over Fifty-five years ago. The space race was in full swing. It was a time of palpable optimism. A certain belief that man could conquer the constraints of nature with ingenuity and forward-thinking progress pervaded. The Astrodome was built during this feverish pursuit of the impossible. It was the first domed stadium and it was a marvel of sports architecture.

There was a major problem, though. The clear Lucite panels that comprised the dome created a glare. Astros outfielders and their opponents were blinded as they attempted — and failed — to catch pop-ups. The initial solution was to paint the ceiling to cut the glare. It worked, but another problem arose. Deprived of adequate sunlight, the grass died!

Meanwhile, Monsanto had just invented a brand-new product they called "ChemGrass". During the Korean War, the U.S. Army had found urban recruits to be less physically fit than rural recruits. Attributing this to lack of green space in cities, the Ford Foundation funded research for Monsanto to create a synthetic grass replica. The Astrodome brought Monsanto in to install ChemGrass. It was a great success, and Monsanto capitalized on the popularity of its high-profile installation to rebrand their grass replica. Thus the "AstroTurf" brand was born.

Over the half century since AstroTurf was first installed in Houston, technology has rapidly improved. AstroTurf® has continued to drive innovation within the industry and these days, AstroTurf® products come ever closer to replicating the feel, performance, and safety of the gold standard — natural grass.



about sportgroup

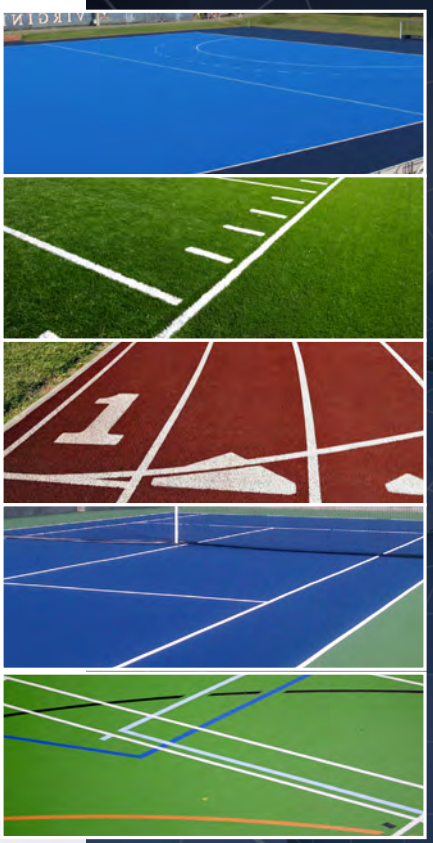
AstroTurf continues to build on its golden past as part of Sport Group!

Today AstroTurf® is owned by Sport Group. As a Sport Group company, AstroTurf harnesses its history of forward-thinking ingenuity and disciplined R&D to continuously improve its systems and to deliver playing surfaces with the best sport-specific performance, durability, and player protection.

Sport Group is today's true global sports surfacing giant, with manufacturing facilities around the world. Active in over 70 countries, Sport Group has installed more than 30,000 turf fields and running tracks. Sport Group was created by selective acquisitions of the leading turf, track, indoor and outdoor sports surface manufacturers. This amalgamation of innovation and technology also includes the manufacturers and marketers of key raw materials used in all aspects of the sports surfacing industry.

AstroTurf® is in the enviable position of enjoying a completely vertical and fully integrated environment, where all its ideas can be brought to life in a market hungry for innovation.

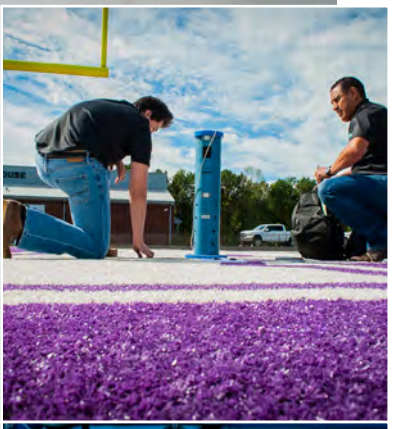
In addition to the turf fields AstroTurf® is famous for, we offer legendary Rekortan® running tracks as well as Laykold® hard court surfaces.

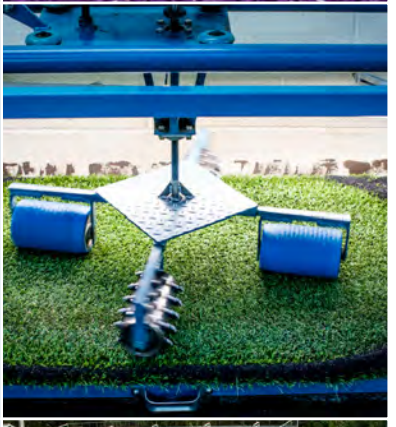


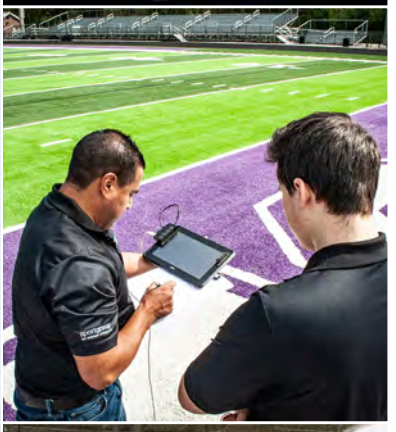
AstroTurf | THE ICON THAT INVENTED THE INDUSTRY



research & DEVELOPMENT









AstroTurf has never rested on its laurels. A quest to bring our systems ever closer to the playability of natural grass drives us to place extensive reliance upon innovation and research. Today's cutting edge is tomorrow's dull blade, though, so there is no rest for our diligent engineers.

IN-HOUSE RESEARCH LABS

AstroTurf's world-renown in-house research and development laboratory relies on a broad range of testing apparatuses and methods. With full FIFA and FIH testing equipment and proprietary durability testing devices developed in house, we take every possible component – from fibers to infills to shock pads and more—to the breaking point. With more than 30 years of data to which we can compare, we know exactly how each system will perform in your field before it is manufactured and installed. Moreover, AstroTurf® researchers collaborate with their Sport Group counterparts around the globe to share insights that benefit athlete safety, field longevity, and athletic performance.

UNIVERSITY OF TENNESSEE CENTER FOR ATHLETIC FIELD SAFETY

This multi-million dollar investment by AstroTurf is a testament to the company's commitment to the industry and its clients. By building a state-of-the-art, multi-acre testing facility on the campus of the University of Tennessee and funding research to measure the performance and safety of both synthetic and natural turf, AstroTurf has contributed more to the body of knowledge surrounding athletic fields than any other company in our industry. Outcomes and collaboration with the UT Center for Athletic Turf Research inform our product design.

RESULTS-ORIENTED RESEARCH

The unceasing focus on AstroTurf and Sport Group companies to push the industry to the next level have created numerous advances. Our clients benefit from innovations found nowhere else, including:

- **RootZone:** The RootZone, a texturized layer of fibers that draw down to encapsulate infill, results in minimal rubber splash, better shock absorbency, and less infill migration than basic systems. The RootZone improves safety, playability, and durability, making 3D systems the top choice for athletes and field owners alike. Importantly, independently funded research by Michigan State University has shown the RootZone to reduce torque transmitted to lower extremities.
- **PreFab:** AstroTurf is the only company that provides prefabricated inlaying for football lines. With PreFab, we have trained installers inlay your field upside down from the back of the turf (for more precision) using a jig system installed in the floor of our climate-controlled inlaying facility. Your field is delivered with about 90% of the hundreds of required inlays already assembled. This dramatically reduces callbacks, speeds up installation time, and allows our onsite installers to pay even closer attention to the finishing touches.
- **TRIONIC PLUS**: AstroTurf offers the TRIONIC PLUS fiber, featuring Sanitized™, StatBlock™, and Thermashield™. This patent-pending development is a feat of chemical engineering never achieved in the history of our industry. TRIONIC PLUS combines player friendly PE with ultra-durable nylon to deliver the ultimate fiber.
- **Entanglement Technology**: To prevent splitting of the fiber, we cross and entangle molecular sidechains to reinforce any weak spots that would form between the main molecular chains that run the length of the fiber.

manufacturing & QUALITY CONTROL

Quality control is of paramount importance.

In 2017 AstroTurf opened its brand new, state-of-the-art manufacturing facility. This plant has a massive footprint and spans almost 400,000 square feet under one roof. Moving our existing equipment to the new plant, integrating it with new equipment, retrofitting concrete and upgrading electrical capacities to handle our demands—all while continuing to run our business in our largest year ever—was a logistical challenge of monumental proportions. It was all worth it though. The boost in volume capacity and enhancement of logistical integration enables us to respond to market demands with high quality products. Moving from one end of the building to the other, you can witness the manufacturing of almost every step of the product.

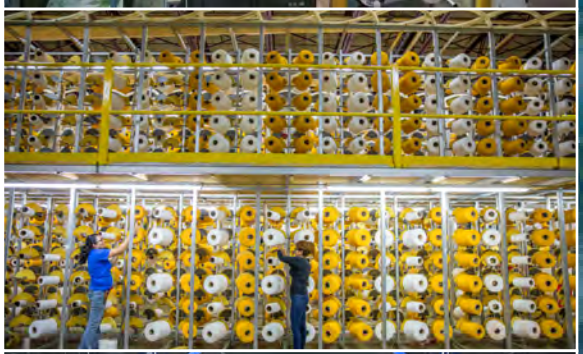
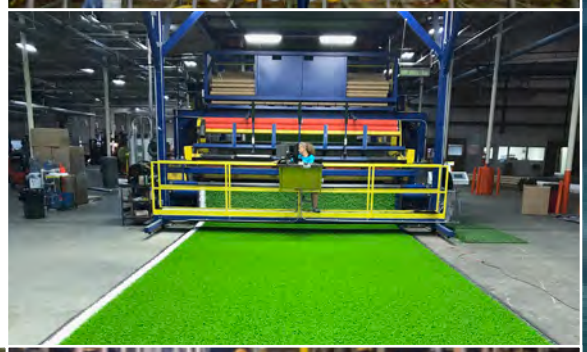
WE CONTROL OUR OWN DESTINY

The unique demands of the synthetic turf industry require that we know exactly how our products will perform, especially with respect to fiber integrity. Our fields are often outdoors for a decade or longer, sustaining constant abuse, yet the safety and investment of our clients depend upon our products holding up.

ITS ALL ABOUT QUALITY CONTROL

Quality control is of paramount importance. We implement strict protocols that ensure that each field is tested during the manufacturing process to ensure it is being manufactured correctly. And – crucially important – we control the masterbatch formulation of our fibers. To our knowledge, no other turf manufacturer takes back the chain of control to this critical step. The masterbatch is like the DNA of the fibers. It is the "special sauce" that contains the UV stabilizers, color, heat resistance and other critical factors that influence the performance of the fibers. Sport Group's masterbatch formulations were developed in Germany by some of the world's foremost polymer chemists, who are directly employed by the Sport Group. The masterbatch formulation is consistent across the globe for all Sport Group turf fibers.

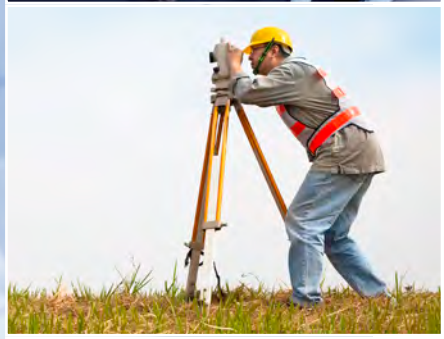


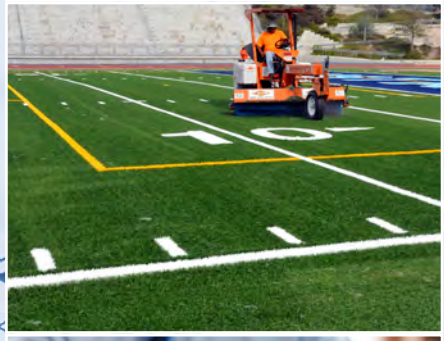



coast to coast
BUSINESS MODEL











A Coast to Coast Business Model that puts our customers first!

It is rare in our industry for one company to be able to offer a track or field customer, a coast-to-coast resource for their entire project. Starting from initial project guidance, to selecting, procuring and putting it in the ground, our team will simplify and improve the outcome of all your decisions. We provide a national, one stop team, with engineering, construction and management that will let you take control of the process. This eliminates costly and time-consuming bid procedures and puts an end to scheduling conflicts and finger pointing.

From surveying and design, to permits and engineering right through civil work, base, drainage and construction of the fully serviced and warrantied track or field of your dreams. We do it all. From initial product selection, through the design and construction processes. From budget to base path. From fiber to field. Full project services, managed end to end.

Regardless of what track or field you are considering, you can count on AstroTurf for the complete package. Our long history gives us a unique perspective. Over several decades our team has experienced tens of thousands of projects. And that helps eliminate surprises and problems for you.

WITH THE GLOBAL RESOURCES OF SPORT GROUP – AND A GROWING NETWORK OF NATIONAL HUBS FROM COAST TO COAST – WE PROVIDE OUR CUSTOMERS WITH THE LATEST TECHNOLOGIES AND ONE STOP PROJECT MANAGEMENT. ALL OF WHICH DELIVER THE MOST EFFICIENT AND ATTRACTIVE FINANCIAL BENEFITS.

AstroTurf FIBERS

AstroTurf has the widest array of tested, vetted fibers, infills and pads!

The surface you install is a combination of turf carpet (composed of grass-like fibers), infill and sometimes a shock absorbing pad. These elements work in concert with one another to comprise the turf system, and no single element should be looked at in a vacuum. These elements each contribute an integral effect to the overall system performance.

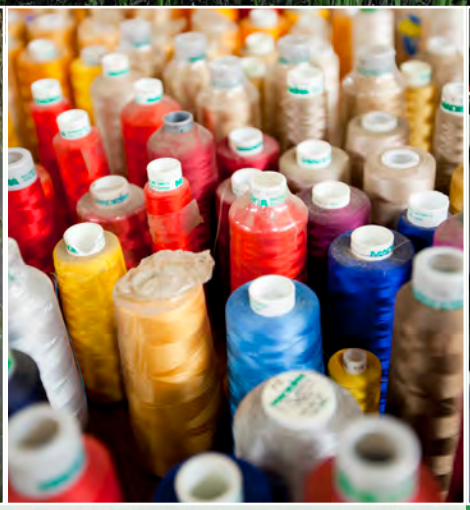
AstroTurf has the widest array of tested, vetted fibers infills, and pads. Our experienced sales staff is available to help you evaluate the best fit for your uses and budget.

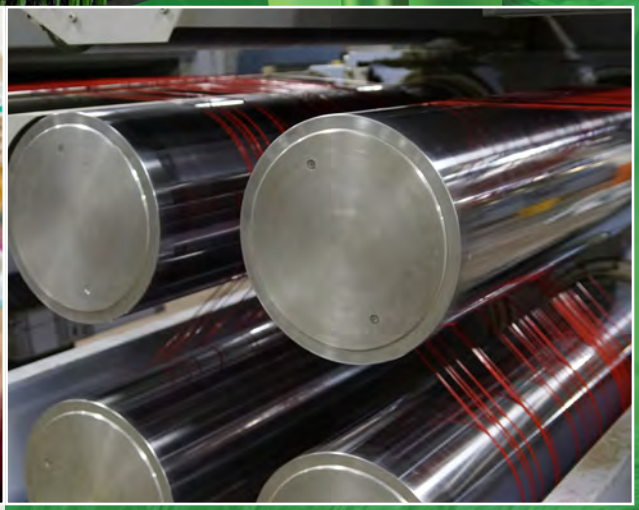
Fiber is the most important element of the system. AstroTurf's fibers are engineered to withstand the years of abuse a typical field endures over the course of its life. When the fiber is gone, the field must be replaced. That is why we advocate a "More Fiber, Less Fill" approach. We provide more fiber – and more advanced fiber – in the system to improve the performance over time. A dense carpet structure has important implications for player safety, too.

All our systems use masterbatch formulations that are created in-house for the strongest fibers on the market.









AstroTurf ROOTZONE











The Rootzone 3D Series is AstroTurf's most popular product line!

The RootZone 3D Series adds a RootZone to basic infilled turf systems. The RootZone is a texturized layer of fibers that curl down to encapsulate infill. The RootZone dramatically reduces infill splash, which in turn yields better shock absorbency over time and less infill migration than basic systems. The RootZone improves safety, playability, and durability, making RootZone 3D systems the top choice for athletes and field owners alike. Importantly, independently funded research by Michigan State University has shown the RootZone to provide grass like traction and reduce torque transmitted to lower extremities.

RootZone Series System Highlights

- Exclusive, precise in-house fiber masterbatch formulations with cutting edge ultraviolet and heat stabilizers
- Entanglement technology, wherein we entangle molecular side chains to reinforce the fiber and prevent splitting
- RootZone infill stabilization system
- Multi-layer woven primary backing
- The latest polyurethane technology to enhance tuft lock, dimensional stability, and fiber adhesion, with polymer formulations engineered in Germany and applied in our own American factory
- Available with a range of infill options

AstroTurf experts bring decades of experience and millions of square feet to play in selecting only the 'perfect batch' of texturized fiber for use in RootZone turf systems.

Trionic Plus FIBER

Softer. Stronger. Lasts Longer. Finally, *molecular fusion of nylon and polyethylene.*

Throughout the history of the synthetic turf industry, the great quest of manufacturers has been to blend polyethylene (PE) and nylon (PA) into a single fiber. From its earliest inception until the 1990s, nylon was used nearly across the board for its superior resilience and strength. The downside of all-nylon texturized fibers was well-known — it was abrasive. In the 1990s, PE came into vogue and became the industry standard for tall pile face fibers. These PE fibers were much less abrasive, but they came at a cost. These PE fields sacrificed the strength that previous generations of turf fields offered.

AstroTurf now offers the TRIONIC fiber. This patent-pending development is a feat of chemical engineering never achieved in the history of our industry. TRIONIC combines player friendly PE with ultra-durable nylon to deliver the ultimate fiber.

What makes Trionic Plus so Different?

While some core systems may use two polyethylene compounds as a cost-saving shortcut, Trionic fibers are a totally different technology. To produce Trionic, polyethylene and nylon molecules are fused into a copolymer and then extruded as a single fiber. This patent-pending process chemically blends polyethylene with nylon using sophisticated compatibilizers, providing softness AND durability.

The TRIONIC PLUS wonder fiber features three distinct added technologies – Sanitized silver-based technology, DualChill thermal shield, and StatBlock anti-Static component. These technologies work together to create a turf that is not only more durable, but also more hygienic, cooler, and safer to use.

The secret is in the compatibilizers. These compounds encase the nylon polymers, which are suspended within the PE to reinforce the fiber. These compatibilizers have an affinity with both the PE and the nylon. They are polar on the inside, and non-polar on the outside. In essence, the compatibilizers bridge the gap.



AstroTurf INFILLS

There is a wide variety of infill options and AstroTurf® has spent thousands of hours vetting the infill products to make sure they meet the company's legendary standards. Infill should be looked at as one element of an overall system that is comprised of synthetic turf carpet, infill, and pad, with each element interacting and affecting the others.

Infill Options



SBR

- Most economical shock absorbing infill
- Most widely studied
- No findings of environmental or health effects
- Absorbs shock



SILICA SAND

- Very Inexpensive
- Widely used and proven
- No negative marketplace perceptions
- Good ballast material



TORGINOL COATED SAND

- Antimicrobial
- UV Protected
- Ceramic-Coated Quartz Granules



EPDM

- Few issues with quality in the marketplace
- Attenuates shock
- Very high melting point
- No negative perceptions



TPE

- Less likely to compact
- No perception issues of crumb rubber
- Attenuates shock



TCOOL®

- Evaporative cooling up to 50°
- 100% sustainability sourced
- Minimal compaction
- Non-toxic and biodegradable
- Dust free installations



NIKE GRIND

- Engineered for human contact
- Conforms to Nike's stringent quality standards
- Sustainability
- Temperature reduction
- Plush and uniform in appearance
- Absorbs shock



BROCKFILL

- Durable
- Optimal traction
- Low splash
- Cooling properties
- No irrigation required
- SuperNatural hybrid
- Less abrasive
- Durable
- All natural



ASTROTURF AQUIFER FEATURING ZEOLITE

- Absorbs and slowly releases water for cooling
- Reduces the need for irrigation
- Eco-friendly
- Helps to conserve water

AMORIM ORGANIC 201

- Based on cork and olive components
- Biodegradable
- Lower surface temperature
- Compression resistant

AstroTurf **PADS**

Shock pads are separate, elastomeric materials such as foam, rubber, beads, or fibers bound together with a strong adhesive. Many pads have been available for decades while the size of the turf market today is attracting newer technologies. Our laboratory tests pads exhaustively before approval for field use.

Beaded Polypropylene

Often simply called “Brock” pads after the industry leader’s brand, these systems consist of small beads of polypropylene molded under pressure into a certain design. These pads are supplied on pallets and are fitted together on site.

Features

- Outstanding shock attenuation properties for player protection
- Good resistance to crushing under heavy loads
- Uniform thickness and density
- Rapid drainage
- Excellent biomechanical properties
- Thoroughly tested and proven
- Various pad styles to meet specific budget and use demands

Rubber Pads

Rubber crumb pads have been proven in use for decades. Heavy, durable, and naturally porous, rubber pads are generally used for more than one life cycle of turf. These pads are offered in two basic formats: Factory made pads and Elastic Layers (E-Layer®) pads.

Factory Made

- Good shock absorbency
- Excellent resistance to “set”
- Can be monolithic
- Excellent drainage

Elastic Layer

- Excellent shock absorbency
- Totally solid underfoot
- Permanent usability
- Monolithic
- Can alter formulations to make E-Layer® more or less bouncy
- Porous

Closed Cell Forms

Generally either cross-linked polyethylene (Trocellan) or PVC nitrile rubber pad formulations (Armacell), these pads are extruded to guarantee uniform thickness and density. Proven for decades for turf applications, foam pads are priced right, can be made in long continuous rolls and can be seamed properly for a monolithic underlayment.

Features

- Good shock absorbency
- Acceptable resistance to “set”
- Uniform thickness and density
- Generally priced lower
- Rapid drainage

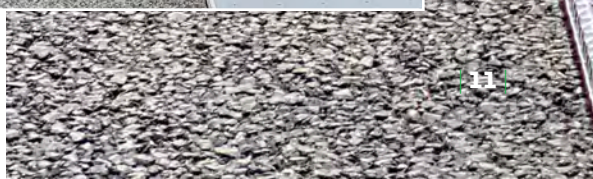








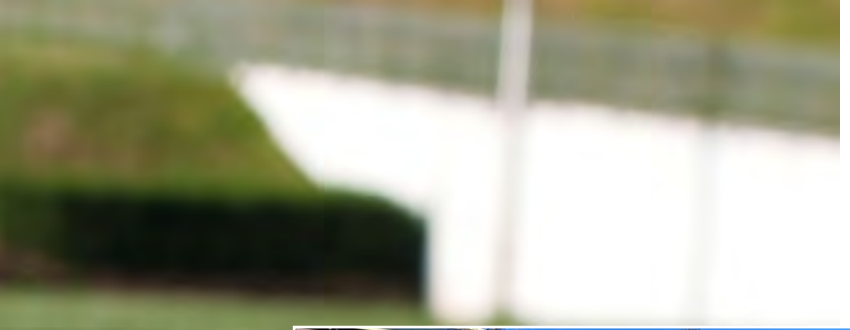




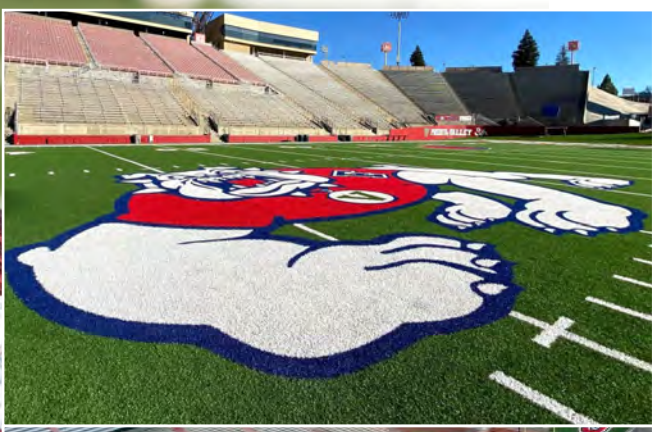


THE ICON THAT INVENTED THE INDUSTRY

turf



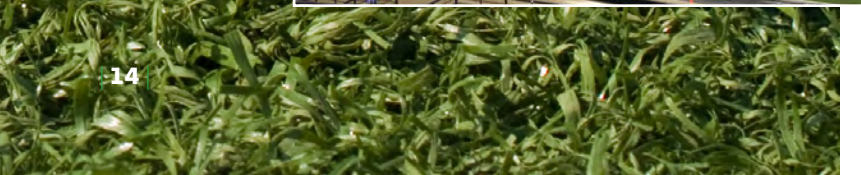












FOOTBALL

We Create 5 Star Systems for Your 5 Star Athletes

The game of football is constantly evolving. The rate at which it has evolved in recent years has taken us into uncharted territory. The strength of athletes, the speed of play, and the demand for high-performing sports surfaces has reached a new level. And once again, AstroTurf® is leading the way to meet those demands.

Our goal was to design a football field with fully integrated components that would encourage peak athletic performance at the highest levels of competition. The result: AstroTurf 3D1

If you are looking for a run of the mill, traditional, no frills, synthetic turf system, then 3D1 may not be for you. But if you are seeking out the most technologically advanced playing surface on the market then it's time to make your commitment now to the 3D1 program.

Fiber:

60 ounces of "Blended" fiber with RootZone

Infill:

Featuring the AstroTurf Aquifer consisting of a performane layer of your choice along with a Zeolite water absorption layer

Pad:

The system sits on an approved shock pad or ELayer®

BASEBALL & SOFTBALL

Tradition Meets Innovation

Today's premiere baseball and softball surface, Diamond Series handles ball bounce exactly like a natural grass field in every area of performance – outfield, infield, and base paths. And this can be custom-tailored to any coach or facility specifications for speed or bounce. Diamond Series fields play and look so natural, yet provide the easy maintenance and exceptional durability we have become famous for over the past 50+ years. Outfield, infield, base paths, pitcher's mound, batters' boxes, and warning tracks are each surfaced with unique AstroTurf products designed specifically to replicate natural field playability.

This natural playability and customization have led to the Diamond Series' success in the baseball and softball markets. AstroTurf has developed three Diamond Series systems to provide baseball and softball clients more control over their home field.

DIAMOND SERIES

DIAMOND SERIES OPS

The OPS system is designed to play like Bermuda grass and natural clay. It includes unique products to cover each area of the baseball and softball field to replicate natural playability.

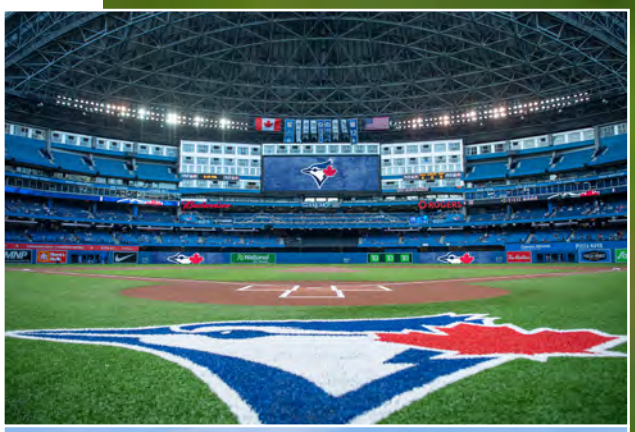
DIAMOND SERIES RBI

The RBI system is designed to play like Kentucky Bluegrass and natural clay. It includes unique products to cover each area of the baseball and softball field to replicate natural playability.

DIAMOND SERIES HR

The HR System is designed as more of a multi-purpose product, especially suited for use when other field sports are to be played in the outfield. While lacking some of the distinctive features of the OPS and RBI systems, it is still a very good baseball system that has been used at some of the highest levels of baseball and softball.

ASTROTURF HAS MORE DIAMOND SERIES FIELDS INSTALLED IN NCAA D1 BASEBALL THAN ANY OTHER TURF COMPANY IN THE INDUSTRY.









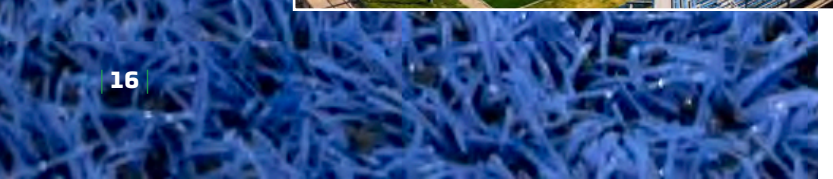












SOCCER

A Passion for Top Class Performance

Soccer is the world's game and continues to grow in popularity. AstroTurf is doing its part to facilitate that growth. Using pristine natural grass as the benchmark, we commit significant resources to studying every aspect of a grass field's performance including playability, durability, and safety. We use this data and couple it with our turf know how to manufacture the best turf product for soccer.

Further, bolstering our efforts, Sport Group has allowed us to collaborate with our worldwide partners in the soccer industry. We particularly work closely with our European team members, who enjoy a majority market share of high-end club's match or training pitches. Our fields represent the best performing synthetic turf pitches in the world... LigaTurf.

LigaTURF®

LigaTurf is now offered in the United States exclusively by AstroTurf Corporation and its partners. The latest LigaTurf systems have emerged as the result of the global collaboration of our Research and Development teams around the world. We have focused our efforts on polymer chemistry, biomechanics, ball roll, and energy restitution to make the beautiful game even more beautiful on LigaTurf.

ASTROTURF® IS THE HOME OF THE MOST INNOVATIVE SOCCER SYSTEMS!

Our broad portfolio is a mixture of various system choices for any level of the game. All our systems are FIFA-certified, which enables us to recommend the right system at any level of the game.

FIELD HOCKEY

Ever since Field Hockey was played on AstroTurf in the 1976 Montreal Olympics, AstroTurf has been the gold standard for the game.

AstroTurf has a long history of innovation and leadership in the hockey world. It is the brand that changed the sport. And it is the sport that has shaped AstroTurf's history. Our specialized knitting equipment and manufacturing history has kept AstroTurf at the very top of the hockey world's elite surfacing.

AstroTurf's fast-playing, non-directional, uniform products are demanded by top elite programs across the world. That is because AstroTurf understands that the outcome of the game should not be influenced by the surface. AstroTurf's Classic Series allows for a higher skill set to flourish on the pitch. Now with a greater variety of affordable and multipurpose products, AstroTurf allows for skill development for everyone from youth to elite players and everyone in between.

- **The world leader in hockey**
- **A supporter of and ally to international hockey organizations around the globe, including FIH, USA FH, NFHCA, EHF, Pan Am and more.**
- **A preferred product of several FIH-Certified systems to meet every need.**
- **The surface used at every NCAA D1 Final Four Tournament since the game left natural grass.**
- **A supporter of hockey at all levels of the game**





















LACROSSE & RUGBY

As the fastest growing sport in North America, Lacrosse is making its mark!

Lacrosse even has turf needs specific to the sport. Even, predictable footing and extreme durability (especially in the creases) are crucial. Lacrosse players move at a breakneck speed, and the turf cannot slow them down. Infill spray should be minimized to provide true and predictable bounce passes and bounce shots.

AstroTurf's focus on "more fiber, less fill" is ideal for the sport of lacrosse. The RootZone 3D product line reduces lower extremity torque, creates even and predictable footing, reduces infill spray and enhances durability. That is a winning combination for Lacrosse players and field owners alike.

RUGBY IS A GENTLEMAN'S GAME, BUT A BRUTAL SPORT. THAT'S WHY ASTROTURF IS UNDERFOOT. FOR OVER HALF A CENTURY, ASTROTURF HAS LED THE WAY IN SYNTHETIC TURF INNOVATION AND PLAYER PROTECTION.

LigaTurf®

LigaTurf is the world's pre-eminent family of turf systems designed specifically to meet World Rugby standards. LigaTurf has a large footprint around the globe and can be found at the most elite facilities in Europe. LigaTurf is now offered in the United States exclusively by AstroTurf Corporation and its partners. The latest LigaTurf systems have emerged as the result of global collaboration of our Research and Development teams across the world, who have focused on polymer chemistry, biomechanics, shock attenuation, energy restitution, and more.

BREAKTHROUGH TECHNOLOGIES ENSURE THAT LIGATURF SYSTEMS EXCEED ALL WORLD RUGBY STANDARDS. AND FULL CONTROL OVER THE MANUFACTURING, CONSTRUCTION, AND INSTALLATION CHAIN ENSURE THAT OUR SOCCER CUSTOMERS RECEIVE THE BEST FIELDS IN THE INDUSTRY.

Conversion SYSTEMS

Since its inception, AstroTurf has dominated the niche conversion market within the synthetic turf industry.

Indoor Turf

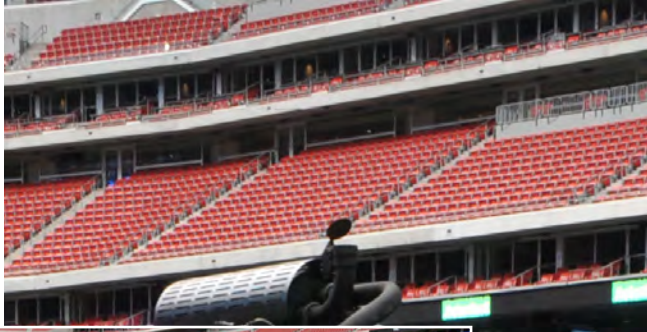
CONVERSION TURF, MAGIC CARPET SYSTEM

AstroTurf introduced the world to synthetic sports turf in the 1960s, thereby changing athletic competition forever. It went on to invent conversion systems (Magic Carpet, AstroHopper, and AstroLift) that have fundamentally altered stadium operations, affording arenas previously unknown flexibility and revenue opportunities. In fact, AstroTurf conversion systems have been in use since the installation of AstroTurf at the Houston AstroDome in 1966. This system was the forerunner of the AstroHopper type system.

AstroTurf installed convertible systems at virtually all the high-profile venues through the 70s, 80s and 90s. The advent of third generation (tall-pile, rubber filled) systems in the late 1990s accelerated the turf industry. The softer feel of the polyethylene blades and cushioned support of the infill were favored by athletes. However, these systems posed a unique challenge to stadiums wishing to host multiple events and sports. Problems arose with containing the infill, and machinery did not have sufficient power to lift the turf containing the 20,000 recycled tires used in the new systems.

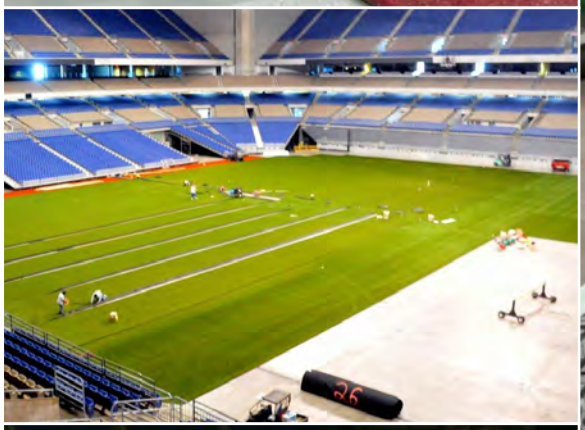
Living up to its historical commitment to these facilities, AstroTurf rose to the challenge. In 2008, we designed and installed a Magic Carpet system for the University of Northern Michigan that could successfully roll up tall pile turf without infill. In 2010, the current Magic Carpet II (MCII) system was installed at the Edward Jones Dome in St. Louis, Missouri. The product is the latest and greatest in turf technology — a 3D product with rubber infill.

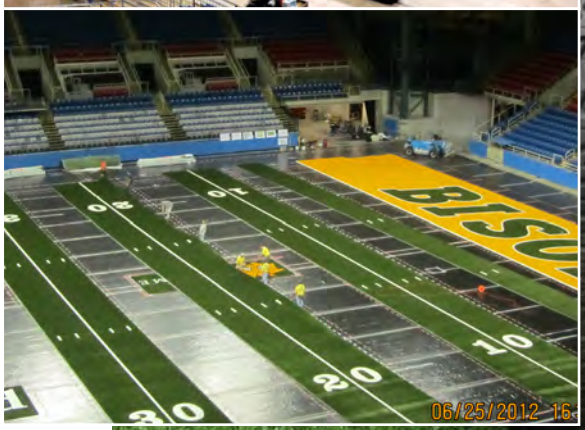
The AstroHopper system was simultaneously improved upon, and it too was redesigned to handle heavy, infilled turf. This system was selected as the conversion system of choice for the Rogers Centre and Toronto Blue Jays in 2010 and again in 2015.

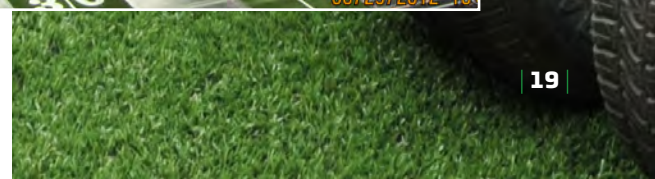












Multifield PROJECTS









GO BIG with AstroTurf!

The sports tourism industry is booming. More and more multifield complexes open every year. These facilities are designed to be meccas for traveling teams. They aim to provide guests with everything they need for successful tournaments – hotels, shopping – of course , high quality athletic surfaces.

Building these large facilities and hosting community events, travel teams and tournaments demand a lot. The level of investment – whether private dollars, public dollars or a blend – requires that every step of the process from concept to completion is executed efficiently. The solvency of the facility and the economic impact on the community depend upon thorough attention to every detail. Synthetic turf is practically a requirement for the long-term success of multifield complexes.

Maintenance of the natural grass surfaces at complexes with large footprints quickly becomes unfeasible, at least at a level that justifies the rental fees that keep these facilities in business. Just as sports tourism facilities provide a one-stop destination for teams and families, AstroTurf serves as indispensable partner in the process – standing side by side during the entire process.

AstroTurf is with you every step of the way.

- **FEASIBILITY STUDIES**
- **SITE ANALYSIS**
- **SURFACE SELECTION**
- **CONSTRUCTION & INSTALLATION**

GO BIG

Cooperative Purchasing & **FINANCING**

You want to buy an AstroTurf® field but need to find the best way to do it.

ASTROTURF PRODUCTS AND SERVICES ARE AVAILABLE ON SEVERAL DIFFERENT COOPERATIVE CONTRACTS.

Too often field buyers want our products but assume they are required to conduct their own formal bid. That results in several problems.

The Problems

Time and Money – It is common to spend hundreds of collective hours conducting your own formal bid. Considerable time and effort are required, doing market research, drafting specifications, advertising the bid, vetting bidders, conducting interviews and more. Do you really have this kind of time?

It's Not What You Want – There are multiple bid types (RFP, IFB, hard bid, line item bids, etc.) and depending on the type of bid you conduct, you may have little choice in your selection. Certain bid types result in general contractors selecting your turf for you. Then you are married to that turf manufacturer and installer for the next 8 years of the warranty, and you did not even get to choose! Price is important, but it should not be the ONLY factor in your decision.

There is a Better Way

A growing contracting method is the cooperative purchasing model. There are many good co-ops that offer contract awards from which their members can benefit. The co-ops ensure that all responding Vendors are fully vetted before awarding the contract, which can then be "piggybacked" by public agencies across the country. This makes it easy to choose an awarded contract with the Vendor your agency prefers.

THE CO-OP BENEFITS ARE CLEAR

It is Easy – They have done the hard work for you. Just issue a purchase order referencing the co-op contract you choose, and we can hit the ground running.

It is Free – Co-op membership is typically free and easy to join online.

It is Legal – RFPs and IFBs are designed to comply with the state requirements and statutes on the front end to allow for maximum flexibility.

Financing

AstroTurf has partnered with PNC Vendor Finance to deliver customized and innovative customer finance solutions.

PNC EQUIPMENT FINANCE

Benefits of Financing with AstroTurf®

- 100% Cost Coverage
- Lowest Monthly Cost
- Conservation of Capital
- Easier Budgeting
- Flexible Financing Terms
- Fixed Payments
- Flexible Payment Structures
- Manufacturer Warranties

WORLD-LEADING HYBRID GRASS TECHNOLOGY

SISGrass is an advanced reinforced turf system, trusted by some of the biggest names in sport.

Our pitches are **95% natural grass surfaces**, with high performance polyethylene fibres inserted into the surface, offering more playing hours and faster pitch recovery than 100% natural grass surfaces.

LEADING THE FIELD IN HYBRID PITCH TECHNOLOGY

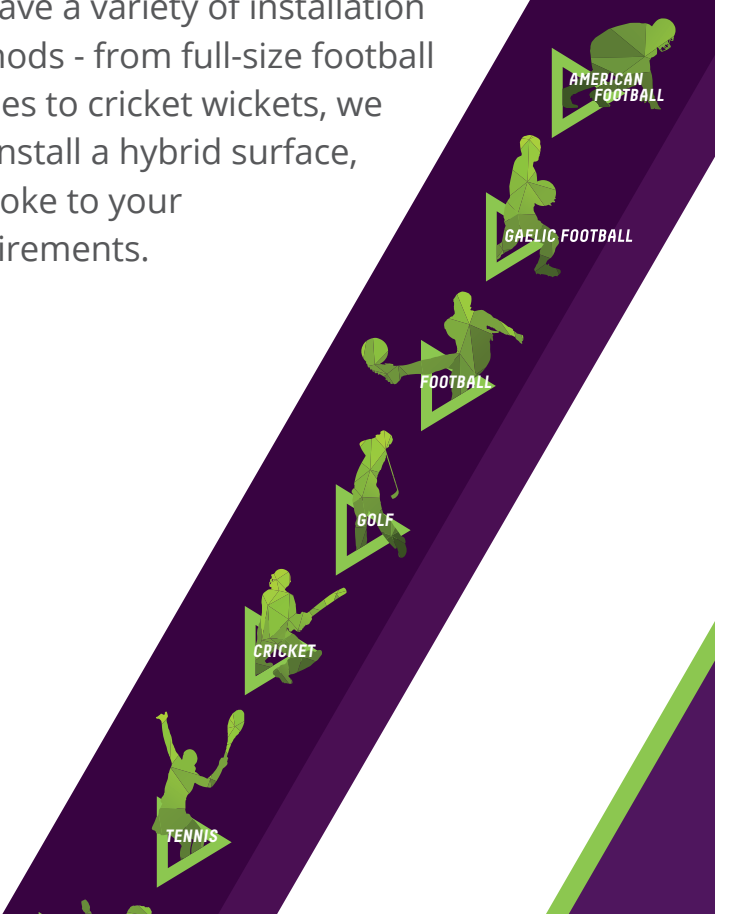
SISGrass has been installed all over the world, working with some of the biggest names in sport.



INNOVATIVE TECHNOLOGY

We've developed our technology to accommodate all major sports, including football, rugby, American football, GAA, golf, cricket and tennis.

At **SISGrass** we understand every surface is different, and we have a variety of installation methods - from full-size football pitches to cricket wickets, we can install a hybrid surface, bespoke to your requirements.



MAINTENANCE

AstroTurf strives to manufacture the highest quality synthetic turf products in the world.

However, to keep your field performing at the highest level, routine care and maintenance must be followed. As with any item requiring long-term, continual upkeep, maintenance logs must be used to record each occasion and type of maintenance undertaken.

MAINTAIN THE GAME®
AFTERCARE PROGRAM

You have made a substantial investment in your field. Protect it with an annual Maintain the Game® Aftercare Program performed by AstroTurf Corporation's certified turf technicians to improve the overall performance, appearance, and life of your field. The inventor and leader of the synthetic turf market is proud to offer the industry's leading turf care program.

Our turf care team has developed two levels of care. Maintain the Game Aftercare is available in Rhino and Rhino Pro packages to better meet the needs of each individual customer. Each are certified packages performed under the direct supervision of an AstroTurf Field Maintenance Technician to ensure the desired results and customer satisfaction.

SPECIALIZED EQUIPMENT REJUVENATES YOUR FIELD TO IMPROVE PLAYABILITY, PROLONG THE LIFE OF YOUR FIELD, AND DELIVER CUSTOMIZED MAINTENANCE RESULTS.

















THE ICON THAT INVENTED THE INDUSTRY

AstroTurf Corporation

THE WORLD LEADER IN SPORTS & RECREATION SURFACES

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