



MAINTENANCE TIPS,
APPLICATION RATES AND RESEARCH

**TURFACE
ATHLETICS®**
Your Home Field Advantage™

TURFACE®

GUIDE TO FIELD MANAGEMENT

BEST PREVENTION AND RESCUE
METHODS FOR NATURAL GRASS FIELDS

TURFACE.COM | 800.207.6457

DRAMATICALLY IMPROVE YOUR FIELD

When you work with Turface Athletics®, you are connected with the industry's largest network of sports field professionals — and with products that have been used on more sports fields than any other brand. For over 50 years, Turface® field conditioners have been relied on by leading NFL, MLS and collegiate programs, and adopted by thousands of recreational facilities around the country. The porous ceramic particles provide permanent benefit to any root zone, helping to reduce compaction, manage moisture and keep natural grass fields in top shape.



PREVENT SLIPPERY, WET CONDITIONS AND PROTECT TURF

- Topdress fields prior to events where rain is in the forecast
- Increase traction and safety by absorbing rainfall to reduce slippery mud patches
- Protect the crowns of your turf with non-abrasive particles

RESCUE FIELDS FROM STANDING WATER AND MUD

- Pour directly into muddy, wet areas for instant drying, better traction and safer fields
- Prevent turf damage by removing surface water

REDUCE WATERING REQUIREMENTS

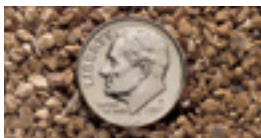
- Apply 10 tons of Field & Fairway™ to add 2,000 gallons of water-holding capacity
- Protect turf from mid-summer dry spells
- Release water, at the root level, when grass requires it

PERMANENTLY MODIFY THE SOIL

- Add water- and air-holding pore space within the soil
- Permanently improve drainage and reduce compaction

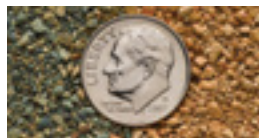
Turface absorbs more than 90 percent of its weight in water and does NOT deteriorate over time!

HOW TO CHOOSE THE RIGHT PRODUCT



TURFACE® MVP®

- Largest particle size
- Can be used for construction, renovation or topdressing
- Best for native soil



PROFILE® FIELD & FAIRWAY™

- Medium-size particle
- Ideal for topdressing
- Optimal for native soil construction
- Available in Emerald to disguise worn areas
- Size is ideal for incorporation via aeration

Available in Natural or Emerald Green



PROFILE® GREENS GRADE™

- Specifically sized for sand-based root zones
- In sand-based fields, use it just like Field & Fairway

Available in Natural or Emerald Green

PROVEN BY PROFESSIONAL RESEARCH

Pamela Sherratt, Sports Turf Specialist at The Ohio State University's Horticulture and Crop Science Department, conducted research on Field & Fairway™, comparing its use for preventing turf damage and rescuing turf from "rain game" conditions.

“One rain game can destroy a natural grass field. I'm pleasantly surprised with Field & Fairway in both preventing damage and speeding recovery of natural grass fields in rain game situations.”



PAMELA SHERRATT
Sports Turf Specialist
The Ohio State University

PROVEN PREVENTION

Sherratt's study compared the performance of Field & Fairway to sand in perennial ryegrass grown on native soil. On half of the test plot, sand slits were applied at an 8" depth, 6" apart and on the other half, the grass was left untouched.

Across both of these surfaces, the following treatments were evaluated:

- Field & Fairway at 0.25" depth
- Field & Fairway at 0.375" depth
- Medium coarse sand at 0.25" depth
- Medium coarse sand at 0.375" depth
- Untreated

Fifteen days after application, the untreated area was irrigated until there was standing water (40-45% volumetric moisture). The same amount of water was then applied to the individual test plots, and high traffic was evenly simulated using a SISIS® wear simulator.

CONCLUSION

Twelve days after traffic on saturated soil, the combination of sand-slits and Field & Fairway at 0.25" and 0.375" depth and Field & Fairway alone at 0.25" and 0.375" depth achieved the best turf quality rating.

PROVEN RESCUE

On a ryegrass test plot identical to the first, another study was conducted to determine Field & Fairway's ability to "rescue" a field from a rain game scenario. The field was irrigated until there was standing water and heavy traffic was simulated using the SISIS wear simulator. The following day, perennial ryegrass seed was applied at 10 lbs per 1,000 sq ft and 12-24-14 fertilizer was added at 1 lb N per 1,000 sq ft.

Then, five treatments were evaluated:

- Field & Fairway at 0.25" depth
- Field & Fairway at 0.375" depth
- Medium coarse sand at 0.25" depth
- Medium coarse sand at 0.375" depth
- Untreated

Half of the field was then covered with a growth blanket, and the other half wasn't.

CONCLUSION

The study confirmed that applications of Field & Fairway significantly firmed the surface following traffic damage on saturated soil. With just two weeks between a rain game and the next game, a combination of slits, Field & Fairway and a growth blanket provided the best scenario for field recovery and game preparation.



RESCUE YOUR FIELD FROM RAINOUTS

DON'T LET A LITTLE PRECIPITATION STOP YOU FROM PLAYING BALL.



PREVENTING DAMAGE WITH TURFACE®

IMPROVEMENT IN A SINGLE APPLICATION

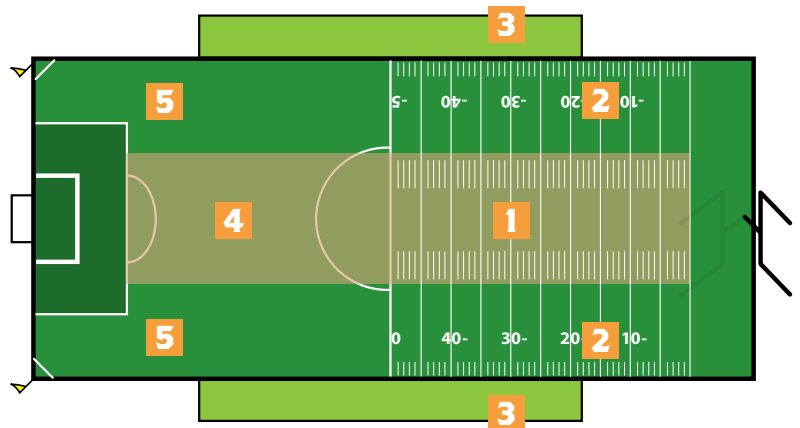
Fight muddy turf before the first drop of rain. One truckload (23-24 tons) of Turface® at the beginning of the year can save you a lot of headaches over a season. Our one-time, full-rate application recommendations are designed for turf managers to provide optimal results and the ultimate level of protection for your turf.

FOOTBALL FIELD (23 TONS)

- 1** Between hash marks: 9 tons* at 0.375" depth
- 2** Hash marks to sidelines: 6 tons* at 0.25" depth on each side
- 3** Sidelines: 1 ton* on each sideline

SOCCER FIELD (24 TONS)

- 4** Middle third of field: 10 tons*
- 5** Side two-thirds of field: 7 tons* on each side



CONSTRUCTING NEW FIELDS

To get your new sports fields off to a great start, begin by incorporating Turface into your native soil or sand-based mix. Visit [Turface.com](https://www.turface.com) or call (800) 207-6457 to find your nearest Turface representative for all the details.

“Field & Fairway is perfect to topdress before or during rains if you need to dry up areas for events. It provides a safe field for the athletes by preventing the surface from becoming muddy and destroying the turf.”

KEN MROCK
Head Groundskeeper
Chicago Bears



If the rains have already come and your field is a mess — it's not too late. Turface instantly absorbs water for a safer playing surface.

Apply Turface at a rate of 5 bags (250 lbs) per 1,000 sq ft, to dry up muddy areas and create a safer, stable playing surface. In areas with standing water, dump and rake as necessary to eliminate water and mud.



THE PROGRESSIVE SOLUTION

Sometimes, a full-rate application of Turface isn't possible. That's why we've developed a solution that can be implemented over a two-year period to achieve comparable long-term benefits to our one-time application.

“We faced hurricane conditions on the football field at LVC, but still managed to play a game on a safe surface as a result of our preparation with Field & Fairway.”

KEVIN YEISER
Director of Grounds and Athletic Fields
Lebanon Valley College

FOOTBALL FIELD

- 1** Between hash marks: 100 bags*
- 2** Hash marks to sidelines: 60 bags* on each side
- 3** Sidelines: 10 bags* on each side

SOCCER FIELD

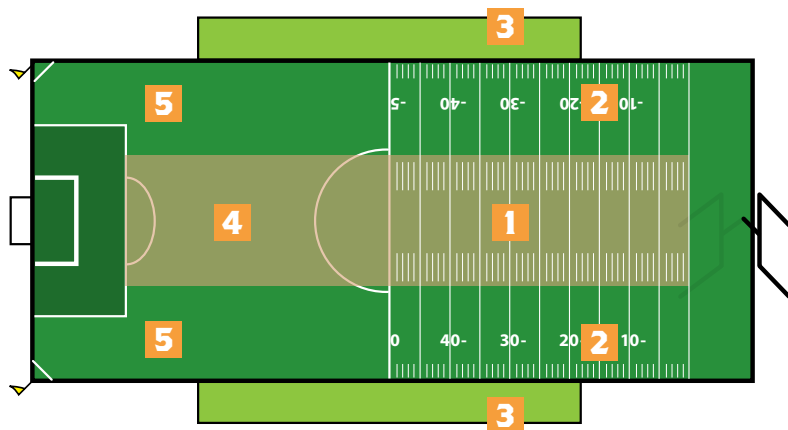
- 4** Middle third of field: 120 bags*
- 5** Side two-thirds of field: 80 bags* on each side

*1 ton = 40 bags of Turface

APPLICATION RATE CONVERSIONS

0.375" = 1,100 lbs per 1,000 sq ft
= 22 bags per 1,000 sq ft

0.25" = 730 lbs per 1,000 sq ft
= 15 bags per 1,000 sq ft



SCHEDULE

This application schedule is designed to apply seven tons twice a year, for two years (four total applications). Apply after aerification once in the spring, then again in the fall. Repeat the second year. These lighter, more frequent applications — if diligently adhered to — provide outstanding protection for years to come.

TOP TIPS FROM TWO PROS

FOR LONG-LASTING FIELD IMPROVEMENT

KEN MROCK'S 6 STEPS TO A WINNING TURF FIELD



STEP 1

Core aerify with multiple passes when conditions are proper to achieve maximum depth. Allow plugs to dry. Avoid aerification in high heat (80°+ F).



STEP 2

Apply Field & Fairway at a rate of 500 lb per 1,000 sq ft. You can use a topdresser, drop or push spreader fully open to evenly apply product.



STEP 3

Overseed aggressively to establish a denser stand of turf. Seeds that germinate in aerification holes have crowns set slightly below ground, providing extra protection for the turf. Contact a local Turface/Profile distributor for the recommended seed blend needed for your area.



STEP 4

Slowly drag the entire turf area with a mat drag to force materials into the turf and aerification holes. Best results occur if plugs are allowed to dry.



STEP 5

Apply spring fertilizer only AFTER the turf flushes with natural spring growth. Premature application forces an early flush and leaves the turf with no food. Contact a local Turface/Profile distributor to test your soil to determine proper types and amounts of fertilizer needed.



STEP 6

Water the entire field, but do not soak. Puddling may cause seeds to float, resulting in uneven growth.



KEN MROCK
Head Groundskeeper
Chicago Bears



JERAD MINNICK
DIRECTOR OF GROUNDS
Maryland SoccerPlex / Sports Turf Institute

MINNICK'S TOP FIELD MAINTENANCE TIPS

1

Focus On High-Use Areas

Each sport has a different type of "traffic pattern" that impacts less than half of the actual field surface. Focus time and resources on those areas.

2

Use Photos and Data

To avoid guessing, utilize any data collection tools that you might have available (soil moisture, compaction, etc.) and soil nutrient test at least once per year. To avoid relying on memory, take as many photos as possible to document field conditions – both good and bad.

3

Be Proactive

Use tools and products to be proactive, even if a playing surface is in good condition. Soil nutrient deficiencies may not be currently observable, but they are a limiting factor for improving quality. Topdressing high-use areas with products like Profile® Field & Fairway™ may not yield immediate results, but they reduce compaction potential for years to come. Be on offense whenever possible.

4

Communicate

It is vital to have constant, positive communication with coaches, administrators, and/or even athletes. We, the sports turf manager, are the only voice the playing surface has. Communicating what is going on with that surface – both good and bad – is key.

FIELD & FAIRWAY™ IS KEY

FOR LARGEST SINGLE-SITE MLS TOURNAMENT



Jerad Minnick, director of grounds for Maryland SoccerPlex in Boyds, Maryland, and founder of the Natural Grass Advisory Group™, has demonstrated that using data science and Profile® Products' Field & Fairway™ has been a game changer for every level of play.

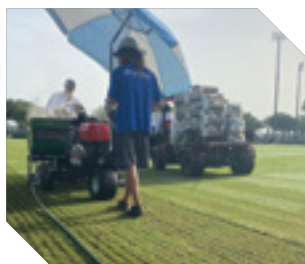
The SoccerPlex hosts a variety of games and tournaments day after day throughout the year, from youth to professional level matches. Each field averages 10 matches a week. Using a system of AI sensors to create a heat map of player traffic, Minnick and his team found that fields wear down unevenly. Roughly 50% of the field experiences 70% of traffic, with the center, edges, and areas in front of the goals experiencing more compaction and deformation than other areas. Protecting the middle 30,000 square feet of the pitch was most critical due to the high number of youth matches with kids tending to crowd that area.

The analysis lead Minnick's team to topdress with



▲ **ABOVE:** Topdressing at Maryland SoccerPlex

▼ **BELOW:** DryJect prep for "MLS is Back" Tournament



Field & Fairway to provide more complete turf coverage and provide greater protection from surface compaction. "You don't have to do any extra work to topdress Profile and walk away," said Minnick.

Minnick and his team took a similar approach at the "MLS is Back" Tournament, the largest single-site professional soccer event ever held with 51 matches on three fields over 35 days at the Walt Disney Wide World of Sports Complex in Orlando, Florida. Two weeks before the first game, Field & Fairway

was applied to the fields' 50,000 square feet of highest trafficked areas via DryJect. DryJect uses a high-speed, water-based injection system to blast aeration holes through the root zone with a vacuum then filling fractures in the soil with Field & Fairway.

“**SOCCERPLEX IS A NONPROFIT, SO WE'RE NOT SPENDING EVEN A FRACTION OF WHAT PROFESSIONAL FACILITIES SPEND PER FIELD, BUT WE'RE DOING OUR APPLICATIONS AND THINGS TARGETED TO OUR HIGH TRAFFIC AREAS DIFFERENTLY TO MAKE OUR MONEY GO FURTHER.**”

Data confirmed that using Field & Fairway decreased average field compaction from 14 millimeters to 8.7 millimeters. It also improved drainage through the grass's organic layer by 10% (which was critical with Florida's near daily rainstorms).

Perhaps the biggest accolade

for the ground crew was the fact they didn't receive any complaints from players or coaches. Professional players are especially particular about field consistency, so this was a major win for Minnick and his team.

"With Field & Fairway you're making a capital investment that is going to continue to give you returns for the next 8, 10, 12, 15 years," said Minnick. "So it's something that we think highly of because of that. And it really showed during this event, more than it ever had, really."

Similar benefits continue to be seen at the Maryland SoccerPlex. Topdressing with Field & Fairway has diluted concentrated thatch, improved turf recovery, improved the rootzone and increased overall firmness. Games can keep going nearly nonstop, with everything from weekly soccer clubs to seasonal tournaments to additional sports like lacrosse drawing in people from across the state and country to the local community.

IN THE GROUND

Incorporating Turface® into the soil of your natural grass fields reduces compaction and improves water- and air-holding capacity at the root zone.

ON THE GROUND

Improve field safety, stimulate recovery and absorb excess moisture by adding Turface to water-soaked fields.

BY YOUR SIDE

The Turface network of professionals can help you every step of the way, with information and tips on products, procedures and best practices.



Turface Athletics
Turface.com
Phone: 800.207.6457 • Fax: 847.215.0577

750 W. Lake Cook Road, Suite 440
Buffalo Grove IL, 60089

T-06 12/22

Turface Athletics, Turface and MVP are registered trademarks of PROFILE Products LLC. Your Home Field Advantage, Field & Fairway and Greens Grade are trademarks of PROFILE Products LLC. SISIS is a registered trademark of Howardson Limited 2022; all rights reserved. Natural Grass Advisory Group is a trademark of the Natural Grass Advisory Group.