

Date: 24/09/2023

Gravesham Borough Council
Civic Centre
Windmill Street
Gravesend
Kent
DA12 1AU

Location: Former Fleet Leisure Nelson Road Northfleet Gravesend Kent DA11 7EE

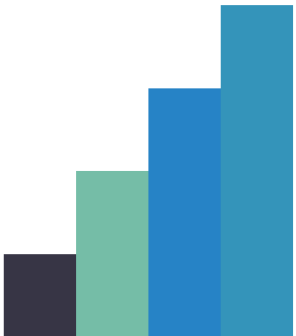
Re: Management and Maintenance Scheme for the Facility – Condition 18

Dear Planning Officer.

I hope this letter finds you well.

With utmost diligence and meticulous attention to detail, I am writing to present the Management and Maintenance Scheme for the Football Training Facility, Clubhouse, Gym, and Leisure Facility Development, pursuant to Condition 18 of the planning approval.

The pitch was supplied and installed by Slatters ports construction who are a well known contractor and have supplied pitches for Everton FC. They are the leading constructor of non-league artificial pitches and, through their exclusive partnership with world-leading artificial sports turf manufacturer FieldTurf, are approved suppliers to the Football Foundation AGP Framework, run in partnership with The FA, Premier League and Department for Culture, Media and Sport.





I am pleased to inform you that the enclosed documents embody a comprehensive strategy that delineates management responsibilities, an intricate maintenance schedule tailored to the unique needs of our facility, and a forward-thinking mechanism for routine review. Additionally, in alignment with the stipulations of the condition, we have outlined robust measures to ensure the timely replacement of the Artificial Grass Pitches (AGPs) within the specified timeframe, safeguarding the sustainability and longevity of the facility.

Highlighting a few key elements from the attached **O&M Manual from Slatters for the AGP pitches**:

1. **Lifespan of the AGP:** The manual outlines the expected lifespan of the AGP, reinforcing our commitment to timely replacement.
2. **Maintenance Regime:** Detailed guidance on routine and periodic maintenance, from drag brushing and infill redistribution to deep-cleaning processes.
3. **Management Responsibilities:** Clear designation of roles and responsibilities to ensure the pitch maintains its optimum quality, with considerations for wear and tear, user safety, and the preservation of performance characteristics.
4. **Annual Reviews:** The manual emphasizes the importance of annual inspections and performance testing to ensure that the AGP consistently adheres to industry standards and user expectations.

With the encapsulation of these measures, I am confident that we have not only met but surpassed the requirements laid down by Condition 18. We have put paramount importance on delivering a facility that is fit for purpose and sustainable in the long term. Our dedicated strategy ensures the continued benefit of the development to sport, embodying the core ethos of Gravesham Local Plan Core Strategy Policies CS10, CS12, and CS13, as well as the Gravesham Open Space, Sport & Recreation Assessment, Strategy & Action Plan.

In conclusion, I submit this Management and Maintenance Scheme for your esteemed review and approval. We remain committed to excellence in every phase of the



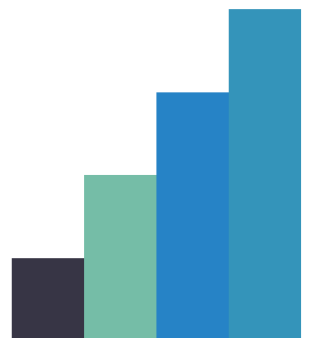


development, ensuring that the facility serves as a beacon of sportsmanship and community spirit for generations to come.

Please do not hesitate to reach out if further elucidation is required on any aspect of the enclosed documents. We eagerly await your feedback and look forward to a positive resolution.

Warm regards,

Ben Revell



YOU BOUGHT THE BEST
NOW GIVE IT THE CARE IT DESERVES



MAINTENANCE
GUIDELINES

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WELCOME TO FIELDTURF!

It is my great pleasure to count you as part of the ever growing FieldTurf family. We’re honored that you’ve chosen us to surface your facility with our world-class leading systems.

Proper maintenance will not only keep your field looking and playing at its best, but first and foremost it will provide your athletes with a playing surface that will assist them to perform at the peak of their abilities. At this time we invite you to read through our Maintenance Guidelines and keep them as a reference, when needed.

Have a question? Our dedicated team is here to help.

Phone: 1-877-725-TURF (8873)
E-Mail: customerservice@fieldturf.com

Again, thank you for being part of the family!

Sincerely,



Eric Dalieri
President

CONNECT WITH YOUR FIELD
Join our exclusive customer program



Please visit fieldturf.com/en/service/customer-connect to sign up for this exclusive online aid for tips and information on overall care of your FieldTurf field.

GETTING STARTED - THE ESSENTIALS
MAINTENANCE GUIDELINES ACCEPTANCE FORM

Ensure that the Maintenance Guidelines are read and understood by the proper maintenance personnel and that a copy of the Acceptance Form is signed and sent back to FieldTurf within 30 days of completed installation.

FieldTurf Owner’s Manual Acceptance Form

Field Name: _____

Field Location: _____

Owner Representatives Present: (Name & Title)

1. _____

2. _____

3. _____

4. _____

Training Session:

Date provided: _____

Duration: _____

The following were reviewed during the session:

☐ FieldTurf Maintenance Guidelines

☐ BARS

☐ Infill Replenishment Practices (High Traffic Areas)

☐ FieldCare – New Field Program Offer

Description of Equipment Provided: _____

☐ Maintenance equipment assembled by installation crew

☐ Equipment demonstration set up on utility vehicle provided by field owner

☐ Field maintenance training provided by installer with “Field Demo”

	Quantity Stock
Field rolls - quantity:	
Sand - quantity (tons):	
Rubber - quantity (tons):	
Colored turf:	
Colored turf:	
Colored turf:	
Colored turf:	
Other:	
Date received maintenance equipment:	

I, the undersigned, acknowledge having received the FieldTurf Owner's Manual for the product purchased by the Owner. By signing this document the Owner confirms that the above listed items have been provided/completed in conformance with the project requirements and delivered/accepted by the Owner.

Please give original copy to FieldTurf Representative and keep a photocopy for your records. Read, Agreed and Accepted

Authorized Personnel Name: _____

Authorized Signature: _____

Organization: _____

Date Submitted: _____

Installation Foreman: _____

Foreman Signature: _____

Certified Installer’s Company: _____

MAINTENANCE LOG

Make sure all maintenance is done on a timely basis, and use our maintenance log chart to keep an up-to-date reference of all work done on your field. This will help you keep a record of all maintenance procedures performed.

Official FieldTurf Maintenance Log

Date Form Submitted (M/D/Y): _____

Organization: _____

Name of Field: _____

Name of Maintainer: _____

STAGES	DATE	NAME	SIGNATURE
Surface Brushing Recommended Frequency: Every 4-6 weeks	M/D/Y		
	M/D/Y		
	M/D/Y		
	M/D/Y		
Surface Aerating Recommended Frequency: Maximum 2-3 times/year (beginning in 2nd year)	M/D/Y		
	M/D/Y		
	M/D/Y		
	M/D/Y		
Surface Raking Recommended Frequency: Every 4-6 weeks	M/D/Y		
	M/D/Y		
	M/D/Y		
	M/D/Y		
Surface Sweeping Recommended Frequency: As needed	M/D/Y		
	M/D/Y		
	M/D/Y		
	M/D/Y		
Additional Maintenance Activities (specify) Recommended Frequency: As needed	M/D/Y		
	M/D/Y		
	M/D/Y		
	M/D/Y		
Complete Inspection of Line Markings, Seams and High Traffic Areas Recommended Frequency: As needed	M/D/Y		
	M/D/Y		
	M/D/Y		
	M/D/Y		
Infill Top Dressing (high-traffic areas) Recommended Frequency: As needed	M/D/Y		
	M/D/Y		
	M/D/Y		
	M/D/Y		
Snow Removal (if applicable) Recommended Frequency: As needed	M/D/Y		
	M/D/Y		
	M/D/Y		
	M/D/Y		

- There are three ways to submit this completed form:
1. Fax: 514-340-9374

2. Email: customerservice@fieldturf.com

3. Physical Mail: 7445 Côte-de-Liesse Road Suite 200, Montreal Quebec H4T 1G2 Canada



An editable copy of the FieldTurf Maintenance log can be downloaded at: customerconnect.fieldturf.com

BARS

BRUSHING AERATING RAKING SWEEPING

THERE ARE 4 BASIC MAINTENANCE OPERATIONS THAT ALL FIELDTURF FIELDS REQUIRE ACCORDING TO OUR RECOMMENDED MAINTENANCE SCHEDULE.

WE SIMPLY CALL IT BARS
BRUSHING, AERATING, RAKING AND SWEEPING.

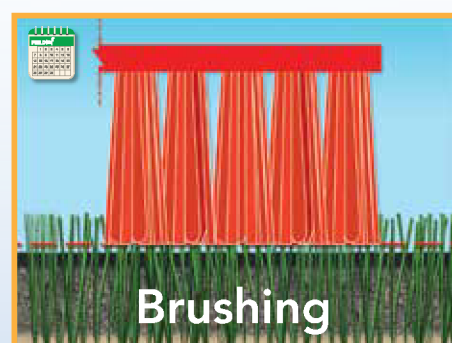
TOW VEHICLES: The minimum requirement to pull groomers and sweepers should be vehicles that have at least 20HP and be equipped with Turf tires. Vehicles should not exceed 70psi of pressure on the Turf/Base system. Hydraulic capabilities are not necessary with any of FieldTurf's current groomers or Sweepers as all are mechanically driven.

SETTING SWEEPERS: When setting Sweepers for use, make sure that the brushes never penetrate the infill. Proper removal of debris will only require the brushes to penetrate the top of the fibers.

SETTING GROOMERS: When setting the Groomer components for use, the rotating tines should penetrate the infill by 3/4". The rakes should penetrate the infill by 1/2". The brushes should not penetrate the infill.

N.B. If you are subscribed to a Field Care Program, please consult your Field Care Manager for recommended grooming frequencies. Grooming systems equipped with internal/external rotary brushes should be limited to frequencies of 2-3 times per year.

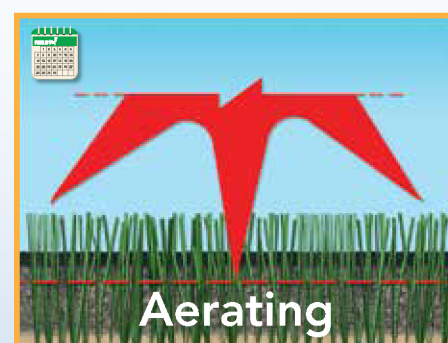
A SUMMARY OF THE STEPS TO FOLLOW FOR LONG-LASTING PERFORMANCE



BRUSHING

Rejuvenates the matted fibers and levels the top portion of the infill.

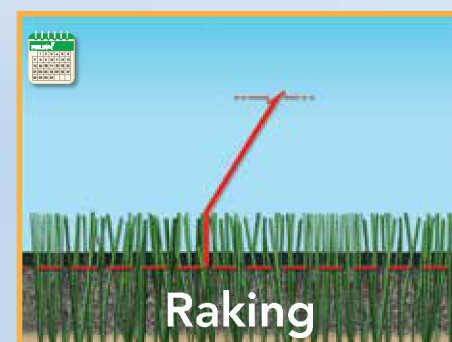
EVERY 4-6 WEEKS



AERATING

Rotating tines are designed to penetrate and loosen the infill to avoid minor compaction.

MAXIMUM 3 TIMES/ YEAR (BEGINNING 2ND YEAR)



RAKING

Prevents fibers from matting down and ensures that the infill is loosened.

EVERY 4-6 WEEKS



SWEEPING

A clean field ensures that foreign material or debris does not get into the infill.

AS NEEDED

OTHER NECESSARY MAINTENANCE PROCEDURES SHOULD BE DONE PERIODICALLY AND ACCORDING TO USAGE.

INSPECT LINES & MARKINGS

It is important to notify our Customer Service department if any line markings or seams come apart.



as needed

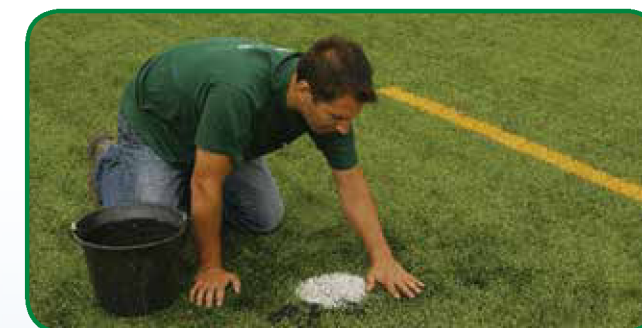


INFILL TOPDRESSING

Adding rubber to the top layer of infill may be necessary in high traffic areas.



as needed



SNOW REMOVAL

If you need to remove snow from your field, adhering to proper guidelines is vital. (See page 36)

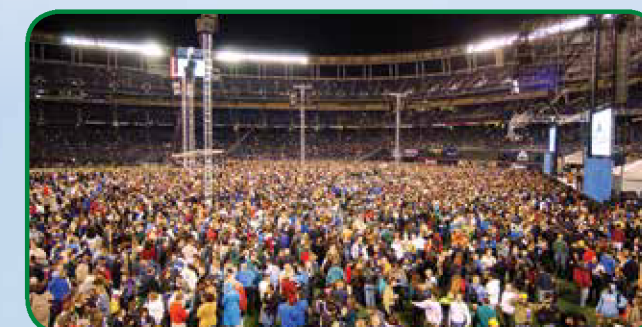


as needed



FIELD COVERING

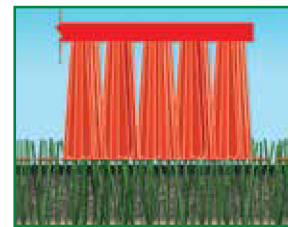
Use FieldTurf Armour protection systems for any events that require field covering and vehicle access. (See page 21-26)



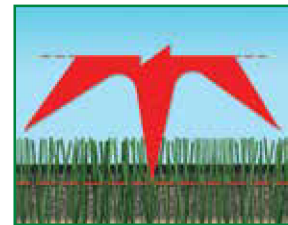


Maintenance Guidelines

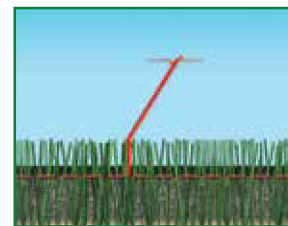
PureFill



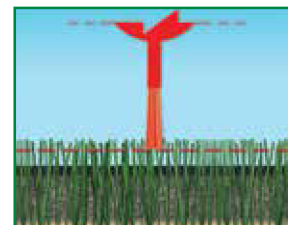
Brushing



Aerating



Raking



Sweeping

Surface Anti-Static Treatment using Boom sprayers

RECOMMENDED FREQUENCY:

On an as-needed basis for the initial break-in period of the field. Dilute the FieldTurf Static conditioner in water at the recommended rates and apply the solution to your field. N.B.: Given the porous nature of the PureFill infill, drying times could be longer than other infills. This also applies following rainfall.

Surface Brushing

RECOMMENDED FREQUENCY:

Every 2-3 weeks or more frequently during heavy use periods. Serves to keep the infill level consistent throughout the field of play. Infill levelling might also be required following a heavy rainfall.

Surface Aerating

RECOMMENDED FREQUENCY:

Maximum 3 times/year. This serves to raise the infill level and avoid over-settling. Timing would be ideally in the spring and after heavy use, such as after a full sport season. (Beginning in the 2nd year of use).

Surface Raking

RECOMMENDED FREQUENCY:

Every 3-4 weeks or more frequently during heavy use periods and/or heavy rainfalls. This can be done in tandem with Surface Brushing.

Surface Sweeping

RECOMMENDED FREQUENCY:

As needed. The presence of foreign debris must be controlled and is recommended as often as required.

Complete Inspection (Line markings, seams and high-traffic areas)

RECOMMENDED FREQUENCY:

As needed. A weekly walk-through inspection is recommended to monitor the need for minor repairs, infill touch ups in high traffic areas and potential sweeping up of debris.

Infill Top Dressing

RECOMMENDED FREQUENCY:

As needed to maintain the specified infill depth. In high-traffic areas this could be as often as once a week, given the lightweight nature of the PureFill infill.

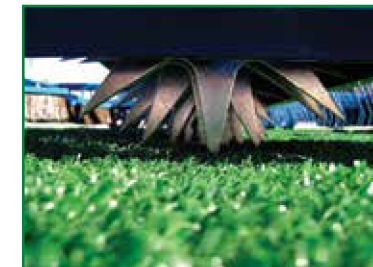


What to Expect

PureFill



Surfactant & Anti-Static Application



Aeration Activity



Groom Right

FieldTurf PureFill systems feature an infill mix made up of sand with a layer of cork granules. There are many real benefits associated with PureFill systems such as proven top surface level heat reduction, fire-resistance, and a very natural aesthetic – due primarily to the layer of granulated cork infill used in the PureFill system.

It should also be noted that due to its porous nature, the Purefill infill might need a bit longer drying time following anti-static application or rainfall than other types of infill.

The settling process of natural infill material is different than that of traditional infill materials. The three points below outline what to expect with the PureFill system material.

1. Additional Installation Procedures that FieldTurf will Undertake on PureFill Fields

FieldTurf will ensure that the infill material is well aerated prior to applying the final cork top layer. A surfactant and anti-static liquid will also be applied to the infill layer to combat naturally-occurring static and surface tension that could, under certain outdoor conditions, contribute to infill displacement and prevent water flow through. This is a preventative measure.

2. A Prolonged Natural Settling Process

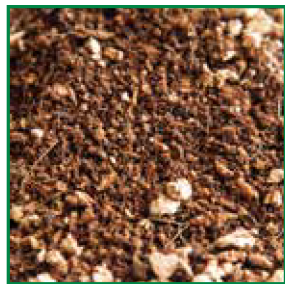
Due to the lighter weight of the natural cork granule, some cork infill displacement is expected to occur after the first couple of heavy rainfalls and/or in temperatures that could create temporary static charge of the infill. This is expected and part of the infill's natural progression to a more settled state. Any displaced infill can be brushed back into the body of the field, some infill addition might be needed in certain areas.

3. Regular Brushing & Anti-Static Application

There are a few additional maintenance items associated with the PureFill system. The field might need to be brushed every 2-3 weeks and after each heavy rainfall. An application of FieldTurf Anti-Static might be necessary in the first few months of the life of your field. This is an environmentally friendly product that is diluted in water. Hopefully the benefits of this system will far outweigh the tasks of additional maintenance steps required and the system will provide the ultimate playing surface for your athletes for years to come.

Maintenance Guidelines

PureGeo



Water Treatment using: Irrigation systems, Kifco Water reels or Boom sprayers

RECOMMENDED FREQUENCY:

Watering for a typical 80,000 sq. ft. field would be as follows:
If the ambient humidity is > 50%-6,500 gallons (10oz./sq. ft.)
If the ambient humidity is < 50%-8,000 gallons (12oz./sq. ft.)
Moisture readings should be taken once a week if no precipitation has occurred. Ideal readings should be between 30%-50% moisture content.

Surface Brushing

RECOMMENDED FREQUENCY:

Every 3-4 weeks or more frequently during heavy use periods.
Serves to keep the infill level consistent throughout the field of play.
Infill levelling might also be required following a heavy rainfall.

Surface Aerating

RECOMMENDED FREQUENCY:

Maximum 3 times/year. This serves to raise the infill level and avoid over-settling. Timing would be ideally in the spring and after heavy use, such as after a full sport season. (Beginning in the 2nd year of use)

Surface Raking

RECOMMENDED FREQUENCY:

Every 3-4 weeks or more frequently during heavy use periods and/or heavy rainfalls. This can be done in tandem with Surface Brushing.

Surface Sweeping

RECOMMENDED FREQUENCY:

As needed. The presence of foreign debris must be controlled and is recommended as often as required.

Complete Inspection (Line markings, seams and high-traffic areas)

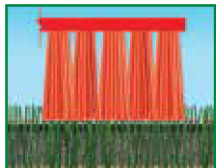
RECOMMENDED FREQUENCY:

As needed. A weekly walk-through inspection is recommended to monitor the need for minor repairs, infill touch ups in high traffic areas and potential sweeping up of debris.

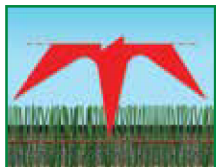
Infill Top Dressing

RECOMMENDED FREQUENCY:

As needed to maintain the specified infill depth. In high-traffic areas this could be as often as once a week. An entire field top dressing would be done once/twice per year requiring 4-5 1,500 lb bags (3-5% of the total infill found in a field) of attic stock per application. **Given the nature of the Infill composition, this step will be mandatory to maintain designated infill levels and ensure the ultimate performance qualities of the playing surface.**



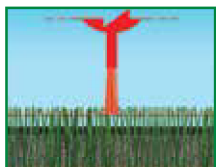
Brushing



Aerating



Raking



Sweeping

What to Expect

PureGeo

FieldTurf PureGeo systems feature an infill mix made up of organic coconut peat, cork and a bottom layer of sand. There are many real benefits associated with PureGeo systems, such as proven top surface level heat reduction and a natural aesthetic quality.

PureGeo infill has varying levels of moisture content depending on the climate in which it is installed. As indicated in the Maintenance Guidelines it will be required to maintain this moisture level throughout the life cycle of the field.

The following are what to expect with the PureGeo system.

1. Color Change

The infill might reflect a change in color throughout its lifespan. However, this change will not affect PureGeo's benefits.

2. Staining

The natural properties of PureGeo infill might lead to clothing stains. Either soaking the stained areas or simply applying conventional stain removing spray agents is recommended.

3. Freezing

Depending on the climate, the high moisture content could lend itself to being vulnerable to freezing due to ambient temperature changes.

4. The Need for Infill Addition

High-traffic areas will need to be monitored for infill addition as needed. An entire field top dressing would likely be needed once/twice per year in order to maintain the designated infill levels and ensure the ultimate performance qualities of the playing surface.



Water Reel



Moisture Thermometer

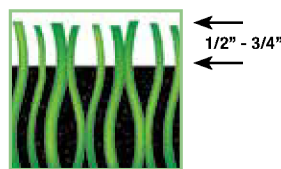


Brushing

Maintenance Guidelines for FieldTurf DoublePlay Baseball Fields



DOUBLEPLAY



Proper Infill Level

In addition to our standard maintenance guidelines, we recommend that you pay close attention to the following DoublePlay specific items:

Proper Infill Depth

At all times, there must be no less than 1/2" and no more than 3/4" fiber showing above infill. Maintaining the infill level is critical to fiber performance and player safety. Specific attention must be given to the home plate and first base areas (if covered by FieldTurf). We recommend that the infill levels be measured and remediated at these areas after every game and practice.

Surface Brushing

RECOMMENDED FREQUENCY: Every 2 weeks or as needed to maintain proper infill depth and fiber appearance.

Surface Aerating

RECOMMENDED FREQUENCY: Maximum 3 times/year, ideally after every sport season and after snow clearing, if applicable (beginning in 2nd year).

Surface Raking

RECOMMENDED FREQUENCY: Every 4-6 weeks or as needed to maintain proper infill planarity and infill depth.

Surface Sweeping

RECOMMENDED FREQUENCY: As needed.

Complete inspection (of line markings, seams and high-traffic areas)

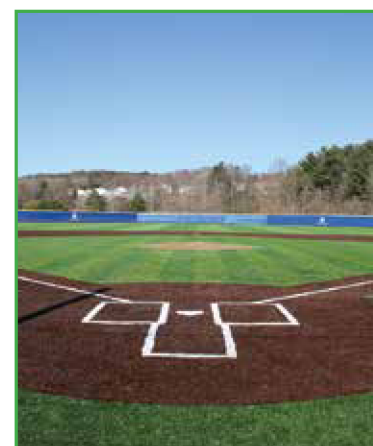
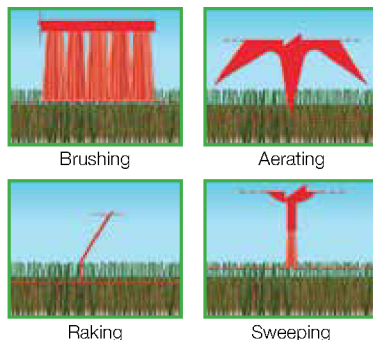
RECOMMENDED FREQUENCY: As needed.

Infill top dressing

RECOMMENDED FREQUENCY: As needed to keep proper infill depth. This will be a necessary periodic maintenance item given the nature of athletic activity on most baseball fields, especially in the high-traffic areas – home plate, first base, second base, third base.

Home Plate Area

We recommend that the home plate area, when covered with FieldTurf, be protected with an alternative turf surface during practices.



FieldTurf DoublePlay Infill Depth Maintenance

In order to properly maintain the infill depth on FieldTurf baseball fields, it is essential to have the following simple tools available at all times.

Essential Infill Depth Maintenance Tools

- Plastic Handheld Rake
- Plastic Handheld Infill Scooper
- Infill Depth Gauge



With a few simple steps using your essential infill depth maintenance tools, infill can easily be added and leveled out for areas on the field that are low on infill. These areas are typically high- traffic spots such as the home plate area, first base, second base, and third base.

Step 1

Using the infill depth gauge, loosen the black screw at the bottom of the depth gauge, place the flat circular part flush with the top of the infill, and move the top lever down until the needle penetrates the infill to the turf backing. Verify and record that the depth level is within specification. The infill depth should always be such that 0.5" to 0.75" of fiber is showing above the infill. That translates to an infill depth of 1.25" for any of FieldTurf's standard baseball products featuring turf fiber heights of 2" or 1.75".



***Note:** When inserting the needle into the infill, do not press too hard or you might damage the depth gauge. Ensure that the needle is not bending in order to get an accurate depth measurement.

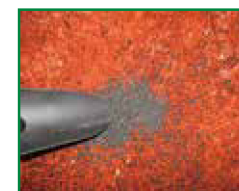
Step 2

Identify the areas with low infill using your infill depth gauge, and brush or lightly rake the fibers in the given area to an upright position.



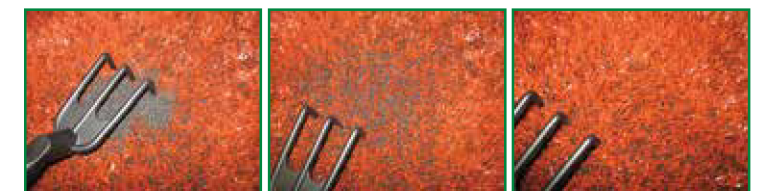
Step 3

Add required amount of SBR cryogenic rubber infill to get the low infill area to its proper specified depth using the plastic handheld infill scooper.



Step 4

Rake the infill into the turf with the plastic handheld rake. Minimal force is required to work the added infill into the turf. Once complete, ensure that the infill is evenly placed in the given area using your infill depth gauge.



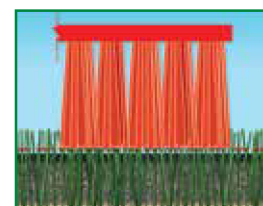
When Areas are Clay: (Home Plate, Pitcher's Mound, and Base Areas)

It will be imperative to brush the clay that has migrated from the areas mentioned above back from the turf areas. Daily monitoring is recommended. If the clay has been accumulating in the grass border for quite some time, the "clean-up" will require substantially more time and effort to restore to its original state.

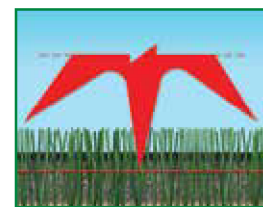
The tools required will be: Stiff-bristled push brooms, rakes or "Power" brooms.

Following this step, Infill will likely need to be replenished in the grass area border. This procedure is identical to the steps shown previously where the aforementioned areas are turf.

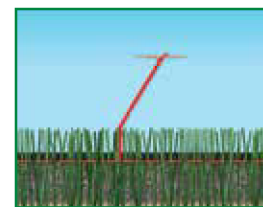
Maintenance Guidelines for FieldTurf Indoor Fields



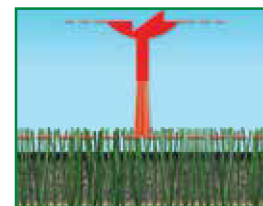
Brushing



Aerating



Raking



Sweeping



FieldTurf Scrub Detergent
FieldTurf Static Conditioner

Surface Brushing

Every 2 to 3 weeks. Maximum.

Surface Aerating

Max 3 times per year, beginning in 2nd year.

Surface Raking

As needed.

Surface Sweeping

As needed.

Infill Replenishment

Weekly in high traffic areas. As needed elsewhere to maintain proper infill depth with 3/4" of fiber exposed.

Infill Re-Distribution

A leaf blower may be required to clear infill from perimeter/board/wall areas.

Complete Inspection

Inspection of line markings, seams and high-traffic areas as needed.

Cleaning / Sanitizing

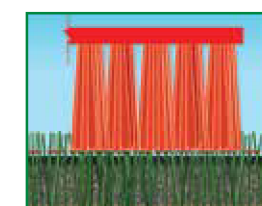
Use FieldScrub minimum once per year.

Anti-Static Conditioning

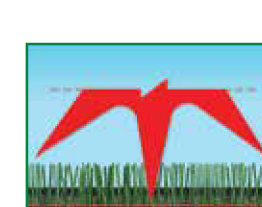
As needed.

PLEASE NOTE: All entrance areas should be covered to avoid premature wear.

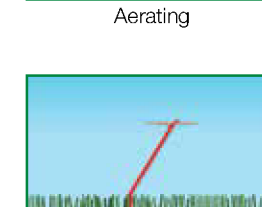
Maintenance Guidelines for FieldTurf Lacrosse Fields



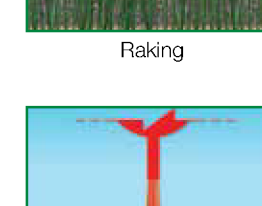
Brushing



Aerating



Raking



Sweeping

Surface Brushing

Every 4 weeks. Maximum.

Surface Aerating

Twice per year, for entire field.

Surface Raking

Every 6 weeks. Maximum.

Surface Sweeping

As needed.

Infill Replenishment

Weekly or as needed in high-traffic areas to maintain proper infill depth with 3/4" of fiber exposed.

Complete Inspection

Inspection of line markings, seams and high-traffic areas as needed.

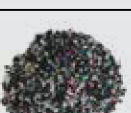
Weekly:

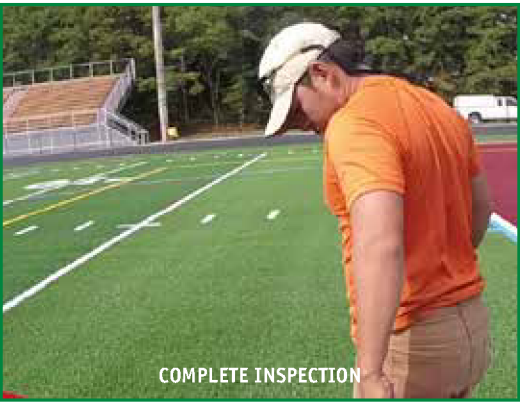
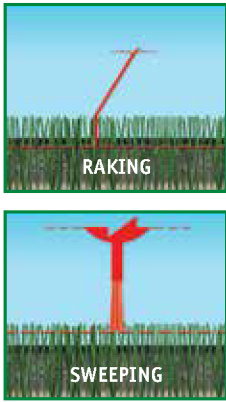
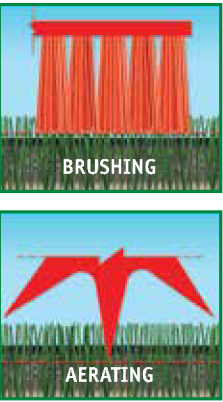
- Verify inlaid markings at crease areas, fans, and center face-off for infill levels and fiber layover.
- Practice and "Drill" areas, in and around the goal also need to be checked more regularly to make sure infill depth is within the normal range.
- Add infill to all key critical field areas.

Annually:

Field inspection by trained FieldTurf "FieldCare" personnel is recommended. If needed, yearly or bi-annual additional inspection and grooming can be discussed with our trained personnel, depending on field usage.

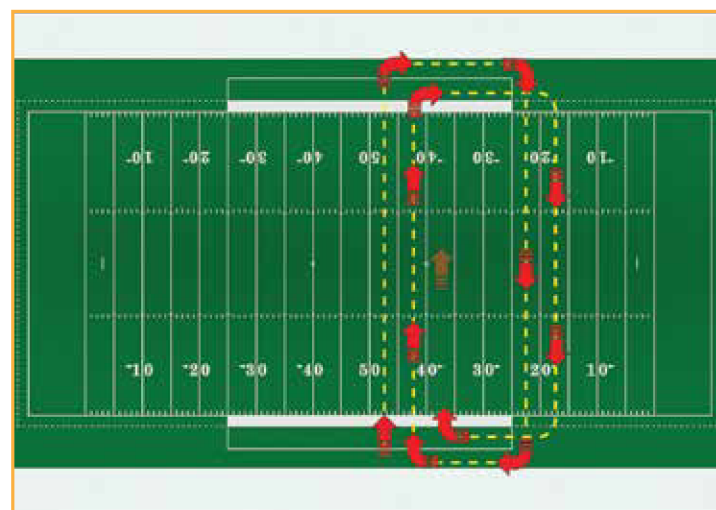
Maintenance Guidelines - Alternative Infill

Infill	Description	Anti Static Conditioning	Water Treatment	Infill Replenishment	Surface Brushing	Surface Aerating	Surface Raking	Surface Sweeping	Complete Inspection	Infill Top Dressing (High-Traffic Areas)	Cleaning/Sanitizing
COOLPLAY 	Extruded composite made from polymer & mineral materials	As needed	N/A	N/A	4-6 weeks	2-3 times/year (max)	4-6 weeks	As Needed	Weekly	As Needed	Once/Twice per year
PUREFILL 	100% organic cork infill	See specific guidelines Page 6	N/A	N/A	2-3 weeks	2-3 times/year (max)	3-4 weeks	As Needed	Weekly	As Needed	Once/Twice per year
PUREGEO 	Primarily coconut peat and/or cork	As needed	See specific guidelines Page 8	See specific guidelines Page 8	3-4 weeks	2-3 times/year (max)	3-4 weeks	As Needed	Weekly	As Needed	Once/Twice per year
ECOSENSE EPDM 	Copolymer of ethylene & propylene having diene linkages that can be cross-linked with peroxides or sulfur	As needed	N/A	N/A	4-6 weeks	2-3 times/year (max)	4-6 weeks	As Needed	Weekly	As Needed	Once/Twice per year
ECOGRIND 	Rubber mixture primarily from running shoes	As needed	N/A	N/A	4-6 weeks	2-3 times/year (max)	4-6 weeks	As Needed	Weekly	As Needed	Once/Twice per year
ECOMAX 	High quality TPE	As needed	N/A	N/A	4-6 weeks	2-3 times/year (max)	4-6 weeks	As Needed	Weekly	As Needed	Once/Twice per year
ECOGREEN 	High quality TPE	As needed	N/A	N/A	4-6 weeks	2-3 times/year (max)	4-6 weeks	As Needed	Weekly	As Needed	Once/Twice per year
COATED ENVIROSAND 	Acrylic coated sand	As needed	N/A	N/A	4-6 weeks	2-3 times/year (max)	4-6 weeks	As Needed	Weekly	As Needed	Once/Twice per year



DIRECTION OF OPERATION

This diagram indicates the ideal method of operation for all FieldTurf machines and BARS procedures. Starting on the sidelines at the edge of the center of the field, cross the field from one side to the other in a straight line. Then go down the sidelines 25 yards and cross the field again to the other side. Next, go up the field 20 yards and cross the field again. Repeat this procedure from the center to both ends of the field until the grooming is complete. Rotating start position and end direction is recommended. The last passes should be end to end on the side panels.



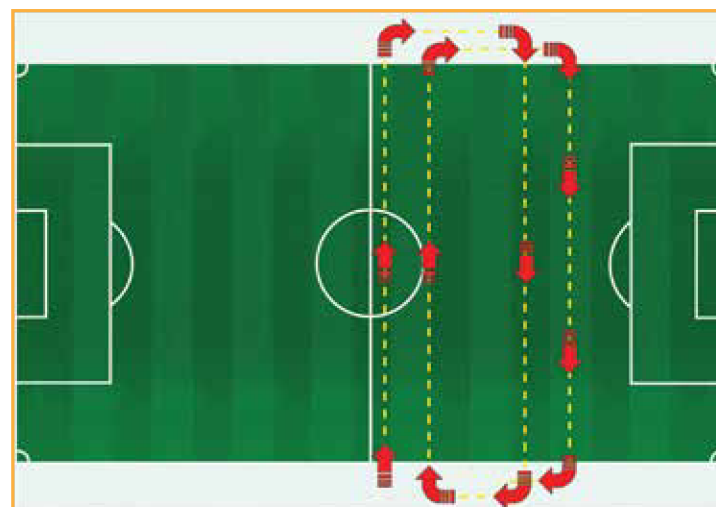
FOOTBALL

KEY FACTS ABOUT FIELDTURF MAINTENANCE EQUIPMENT

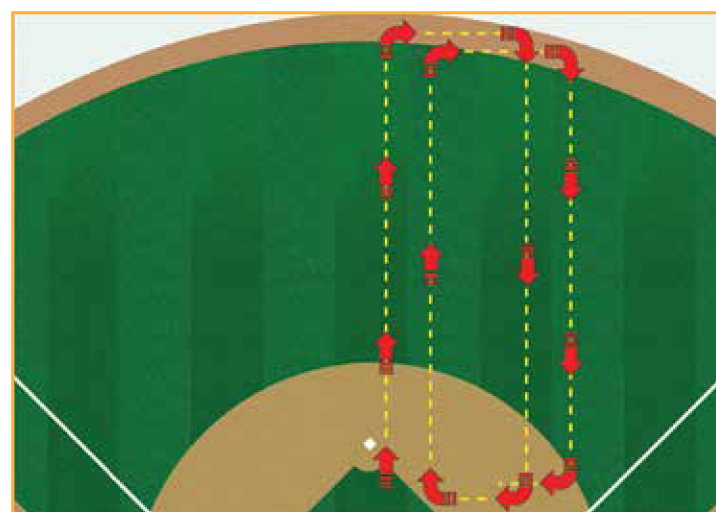


IMPROPER USE CAN DAMAGE YOUR EQUIPMENT AND YOUR FIELD. PLEASE TAKE NOTE OF THE FOLLOWING KEY FACTS:

- Make sure all equipment is clean before entering the field
- Do not operate any equipment until it is on the field
- Do not operate any equipment while in a stationary position
- Always turn off equipment just before stopping
- When sweeping, check your collector basket immediately after starting and do so often
- Collecting too much rubber while sweeping will indicate improper settings
- Pay special attention to high traffic areas, where the fibers and infill levels may be different from other parts of the field, and adjust your settings accordingly. As with any equipment, always read the manual before operating.



SOCCER



BASEBALL

APPROVED ACTIVITIES

OUR FIELDTURF SURFACE HAS BEEN DESIGNED FOR THE FOLLOWING APPROVED AND PERMITTED ACTIVITIES, IN ADDITION TO A WIDE RANGE OF NON-SPORTING ACTIVITIES:

Athletics such as shot put, hammer throw, discus and even javelin (fitted with a rubber tip), can be occasionally performed on FieldTurf. Ideally, the landing area should be outside the playing area but if unavoidable the field should be covered with alternative covering to prevent damage to the FieldTurf surface.

To insure optimum performance of your FieldTurf field we recommend that repetitive training drills and activities be rotated to prevent continuous wear at a single location.

- Football
- Field Hockey
- Baseball/Softball
- Lacrosse
- Soccer
- Rugby
- Physical Education
- Pedestrian traffic
- Graduation
- Concerts
- Events
- Outdoor Ice Hockey Games



PROHIBITIONS

Your FieldTurf field should be kept free from food, gum, sunflower seeds, glass, cigarettes, fireworks, driving stakes and any sharp objects that will risk damage to the field and injury to players. Your field should also be kept free from debris, leaves, paper and windblown material. It is imperative that your FieldTurf field be a designated non-smoking area. Unauthorized maintenance equipment and personnel are prohibited.

FIELDTURF SUPPLIES ITS CLIENTS WITH 2 COMPLIMENTARY SIGNS TO HANG AT THE ENTRANCE OF THE FIELD AND AROUND THE PERIMETER IN ORDER TO CLEARLY DEMONSTRATE THE MAJOR PROHIBITIONS ON FIELDTURF.



GRADUATION GUIDELINES

FieldTurf has developed ideal covering systems that are suitable for all types of events, including Graduation ceremonies, called the FieldTurf Armour systems (Pages 21-26). A request for Information/ Pricing can be obtained by visiting www.fieldturf.com/maintenance

Though it is always preferable to cover the Surface as shown in the Guidelines, budgets permitting, many have held this event without covering the main area of the field itself.

If the field is new, less than 6 months old, conditions might be different than with a mature field. Since Graduation events are traditionally held in the spring, depending on climactic conditions, the field might get a chance to “weather” through the winter months, so it will be important to test the chairs on the surface, as indicated below, if it is chosen not to cover that area of the field.

Though post chairs will generally not damage the surface, they do tend to sink a bit; a quick test will show you the end result. If post chairs are used without a Field covering however, those equipped with rubber stoppers are a must. The chairs should only create small “Divot” holes that should generally disappear when the field is groomed after the event. Again, testing the end results off the main field of play is always recommended.



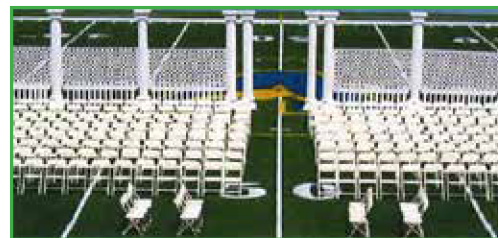
Depending on the final set-up, ladies will find heels very difficult to walk in. Many have recommended that the ladies either wear/or bring “Flats” for their own comfort. Another option to full covering would be to cover the aisles with recommended covering or plywood, then conventional carpeting over the top.

It will be imperative, however, to cover the area under the staging. Either a recommended covering (i.e. FieldTurf Armour), the Equivalent protection using similar systems or 4' X 8' (3/4") plywood sheets which can be doubled or tripled, as required, under the stage footings. The thickness used will depend on the PSI that exceeds the allowable 70 psi (as indicated in the “Vehicle Circulation” guidelines (Page 37)). A tarp or plastic covering underneath should be used to avoid splinters getting into the grass.

It should be noted that your FieldTurf warranty covers the components and Installation of your FieldTurf product. Though all efforts are made to provide appropriate directives for the staging of events other than the sporting activities set out in the warranty, the responsibility remains on the owner for any mishaps or damages that might occur; however no breach in warranty exists with the staging of such events.

A thorough grooming is recommended after the event.
(See pages 38-39 if assistance is needed.)

Here are two examples:



Chairs with “Full contact to the surface” are ideal, if available. Here are two examples:



FieldTurf ARMOUR

FieldTurf Armour turf protection systems are in use worldwide at prestigious arenas and stadiums and have proven themselves through extensive use. Whether you are having a large concert or a small on-field gathering, FieldTurf Armour will protect your turf against damage and keep your visitors safe and comfortable.

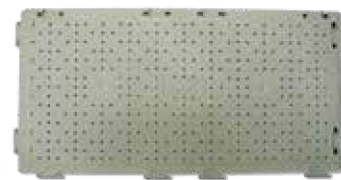
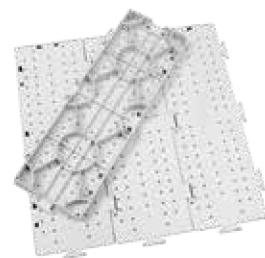
Increase revenue and flexibility and open your building to trade shows, concerts, corporate events, graduations and anything else you can conceive of. We have the experience, the expertise and the range of products to satisfy nearly any flooring requirement.

You can install chairs, staging and other equipment without damage. Drive forklifts, move carts and place equipment easily on artificial turf, running tracks and other sensitive surfaces.

All of our systems are interlocking, modular, expandable, and allow for unique configurations and customized layouts. FieldTurf Armour is easy to install, dismantle and store. Sections can be installed quickly and are designed for regular and repeated use.



FieldTurf ARMOUR



FIELDTURF ARMOUR GP

General Purpose Turf Protection

- Tile size: 4" x 12" x 3/4"
- Module Size: 36" x 48" x 3/4"
- Weight: 0.81 lbs per sq ft
- Supports: 8,000 lbs per sq ft
- Suitable for guest areas, chairs and light equipment
- Does not require tools - snap connection system
- Expansion joint modules to control expansion issues outdoors
- Transition edging

FIELDTURF ARMOUR MD

Medium-Duty Turf Protection

- Tile Size: 12" x 24" x 1-1/8"
- Module Size: 36" x 48" x 1-1/8"
- Weight: 1.44 lbs per sq ft
- Supports: 20,000 lbs per sq ft
- Suitable for guest areas, chairs, equipment and staging areas
- Does not require tools - snap connection system
- Expansion joint modules to control expansion issues outdoors
- Transition edging

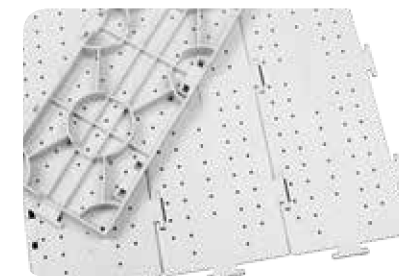
FIELDTURF ARMOUR HU

Heavy-Use Turf Protection & Portable Roadway

- Module size: 42" x 42" x 2"
- Weight: 2.45 lbs per sq ft
- Supports: 25,000 lbs per sq ft
- Suitable for guest areas, chairs, equipment, staging, trailers, vehicles and trucks
- Integrated self-aligning hook-and-loop connection system
- Secondary camlock system adds ballast
- Transition edging



FIELDTURF ARMOUR GP



FieldTurf Armour GP was designed specifically for all types of synthetic turf and offers a greater level of protection against debris, liquids and dirt.

Designed to minimize wear and damage to your turf, FieldTurf Armour GP protects against surface abrasion, surface and base compaction and contamination of the turf and the infill as a result of attendee traffic.

Underside channels are contoured to eliminate sharp edges and prevent shifting of infill and of the flooring. After your event is over, simply brush your synthetic grass back into shape. Unlike older systems, it will be nearly impossible to see any distinguishable pattern in the turf.

FIELDTURF ARMOUR GP DEPLOYS RAPIDLY IN ANY STADIUM

- Designed to be easily deployed without tools
- Completely expandable and configurable as required on-site
- Pre-assembled sections are packed efficiently for easy transport and storage
- Unique inter-module connection system enables tiles to snap into place in both directions
- System contours to the field as needed to accommodate surface imperfections
- An 80,000 sq/ft (7,432 sqm) stadium can be deployed in 5-6 hours with about 20 people
- Expansion joints make installation even easier

FIELDTURF ARMOUR GP IS MADE USING THE HIGHEST QUALITY MATERIALS

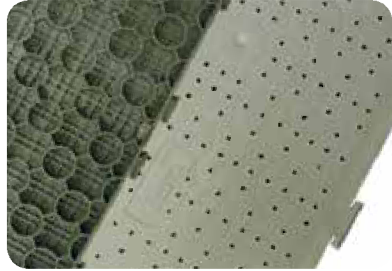
- High-quality co-polymer plastic has izod impact value
- Specific no-break characteristics
- 5-year UV package prevents brittleness
- High ethylene content provides flexure and prevents cracking
- Connector tabs are designed with flexure to prevent breakage

As a result of our quality material formulation, FieldTurf Armour GP is able to resist the rigors of regular use and will not break, crack, fade or become brittle. It has proven itself worldwide in all climates and conditions.

FieldTurf ARMOUR GENERAL PURPOSE PROTECTION



FIELDTURF ARMOUR MD



Designed to offer a greater level of protection, rigidity and weight-loading capability than our GP system, FieldTurf Armour MD is perfect for large areas that require additional support for vehicles, staging and equipment.

Designed to minimize wear and damage to your turf, FieldTurf Armour MD protects against surface abrasion, surface and base compaction and contamination of the turf and the infill as a result of attendee traffic.

Underside channels are contoured to eliminate sharp edges and prevent shifting of infill and of the flooring. After your event is over, simply brush your synthetic grass back into shape. Unlike older systems, it will be nearly impossible to see any distinguishable pattern in the turf.

FIELDTURF ARMOUR MD DEPLOYS RAPIDLY IN ANY STADIUM

- An 80,000 sq/ft (7,432 sqm) stadium field surface can be deployed in 6 hours with about 15 people
- Quick turnarounds minimize the impact to the grass surface
- Pre-assembled 3' x 4' panels make storage and installation efficient
- Designed to be easily installed without the use of tools
- Completely expandable and may be configured as required on-site
- Transported and stored on standard shipping pallets for efficiency
- Robust connection system enables tiles to snap together in both directions
- System contours to the field as needed to accommodate "crowned" fields and other surface imperfections
- Robust enough to handle heavy weights, equipment, and traffic
- Flexible joints prevent breakage
- Integrated bi-directional cable

FIELDTURF ARMOUR MD IS MADE USING THE HIGHEST QUALITY MATERIALS

- High-quality co-polymer plastic has high izod impact value
- Specific no-break characteristics
- Built-in 5 year UV package prevents brittleness
- High ethylene content provides flexure and prevents cracking
- Connector tabs are specially designed with flexure to prevent breakage

FieldTurf ARMOUR MEDIUM-DUTY PROTECTION



FIELDTURF ARMOUR HU



Our premium turf protection system is designed to handle heavy loads and to provide the ultimate in stability and ground protection. It is the most advanced engineered stadium flooring system on the market today and offers superior protection for all types of surfaces and infills.

FieldTurf Armour HU is a large panel system that features an integrated connection system, a durable aluminum cam lock system and unsurpassed liquid spill protection. Each section has a useable surface area of 42" x 42" and is 2 inches thick, thus providing maximum rigidity and surface protection. Sections connect more quickly than other stadium flooring systems - thus minimizing labor and installation time.

FieldTurf Armour HU tile overlap incorporates a liquid capture channel which prevents unwanted liquids from flowing through the seam to the protected surface.

FieldTurf Armour HU offers greater protection against moisture and debris. All underside ribbing features a radius edge that eliminates any sharp edges and provides additional peace of mind when transporting heavier payloads over the floor.

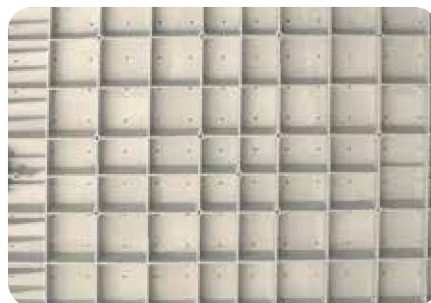
FIELDTURF ARMOUR HU IS DESIGNED TO HANDLE HEAVY WEIGHTS

- Handles heavy weights from vehicles, forklifts, and other moving loads
- Ideal choice for both front-of-house and backstage areas
- Aluminum cam lock system is stronger than any other cam lock systems
- Provides superior life span and long-term durability
- FieldTurf Armour HU's integrated hook and loop system provides additional torsional stability and strength

FieldTurf ARMOUR HEAVY USE PROTECTION



FieldTurf ARMOUR



FIELDTURF ARMOUR HU IS MANUFACTURED USING THE HIGHEST QUALITY MATERIALS.

- Made from the finest High Density Plastic (HDPE)
- Reinforced with additives for added strength, flex modulus, and izod impact value.
- Built in 5-year UV package prevents degradation and brittleness.
- Our cam locks are manufactured in aluminum (others are made of plastic), providing considerable increased strength.

FIELDTURF ARMOUR HU IS THE MOST COMPREHENSIVELY ENGINEERED SYSTEM, DESIGNED TO HANDLE THE RIGORS OF CONCERT AND STADIUM USE.

- FieldTurf Armour HU is the lowest maintenance heavy duty system available.
- Attractive anti-slip sandblast finish is easy to clean.
- No unsightly patterns to catch dirt.
- No submerged channels to trap food or debris.



EMERGENCY REPAIR KIT INSTRUCTIONS

FieldTurf is very proud to introduce you to its “Emergency Repair Kit”

The FieldTurf Emergency Repair Kit contains the following: Brush, Putty Knife, Rags, Depth Gauge, Caulking Gun, Turf Bond Adhesive, Seaming Tape, Scoring Knife and Angle Irons. Other items you will need are: a leaf rake and/or a stiff-bristled broom or brush and a clean Shop Vac. You might also need: a small quantity of Rubber Infill and/or Silica Sand and possibly a Leaf Blower, if conditions are not perfectly dry, and a shovel.

1. Make sure that the area is reasonably dry. If the area is damp, you can use the reverse function on the Shop Vac, or aim a Leaf Blower approximately 2' from the area and in a back-and-forth motion to dry the area as much as possible or you can peel back the area and let mother nature help if the sun comes out.
2. With the aid of a Shop Vac, making sure that it is clean, as you will re-use the infill, lift the affected area and pull on the turf a bit further in order to insure that the rest of the area is secure. Vacuum the infill from the carpet backing, as well as a bit of infill from each side.
3. Use the angle irons provided to hold back the turf of both sides of the inlay being repaired.
4. Apply the “Turf Bond” adhesive to the area to be re-glued. The Putty Knife provided can be used to help even out the adhesive. A spray mist of water will help the bonding process.
5. Replace the turf onto the glued area by using a rolling method, additional adhesive can be added to this step, if required. Check the area in about 15 minutes to ensure the bonding process has begun. The longer you can wait before re-infilling the better (1 hour minimum).
6. Replace the infill mix that has been removed during the gluing process by layering the infill in small quantities, while making sure no fibers get trapped during the process.
7. If pure rubber is available to you, you can touch up the top layer, if needed, to bring the infill depth back to the specified level.
8. Void from the top of the infill to the top of the fibers should be $\frac{3}{4}$ " – 1" (this can be verified by using the Depth Gauge included in the kit).

The repaired area should take about 24 hours to dry completely; however, the area can usually be played on in approximately 2 hours.

Please make sure that you have reported the repairs to us, by phone 1-800-724-2969 or by email customerservice@fieldturf.com indicating exact locations and photographs, if possible, so that we can record and track your field performance over your field's longevity. Your Customer Service Representative will schedule a field visit from a repair technician as soon as they are available to be in your area.

You can also watch our repair video at www.fieldturf.com/repair

If you have any questions, please contact our Customer Service team at 1-877-725-TURF (8873)

ROUTINE MAINTENANCE

REMOVAL OF WEEDS AND MOSS

FieldTurf's superior artificial grass surfaces may look like grass, feel like grass and play like grass; however, if not properly maintained, much like its natural grass cousin, it may still become susceptible to some of grass lovers' natural foes: weeds and moss. It is important to prevent weeds and moss from growing on FieldTurf as it can affect the playability of the surface. Although routine maintenance will prevent this from happening, weeds and/or moss may occur at the interface between the synthetic grass and the perimeter curb.

Should this occur, treat the area with a biodegradable weed killer such as Round Up®, which leaves no residue and more importantly, won't negatively affect the fibers or the coloring of your field. If problems should arise, a 3-prong tool can be used to remove weeds and moss from the affected areas. This should be done carefully so as not to tear the backing and damage the fabric.

Moss could grow on the field surface if the following conditions are present:

- The field surface has not been maintained or groomed over a long period of time.
- If there is an unusual amount of shade on the field and the field has been neglected.
- If the field surface has been left covered with vinyl tarps over a long period of time.
- If there is sufficient moisture and any/all other conditions for growth are met.

SHOE CLEANING

Cleaning mud and dirt from cleated shoes with the use of brushes or cleat cleaners placed near the field will prevent soiling and staining of the field surface.

- Cleaning tools should not be placed directly on the FieldTurf surface.
- Various models are available online or in most sports stores.

MAINTENANCE CARE PRODUCTS



Depth Gauge



Turf Bond
28oz Tube



Turf Bond Kit
4 x 28oz Tubes & 40' Seaming Tape



Emergency Repair Kit



EQUIPMENT

FieldTurf has a complete lineup of custom equipment engineered to facilitate all your maintenance requirements. All equipment or vehicles used on FieldTurf must be equipped with turf tires. Equipment must be stored indoors or outdoors with proper covering, such as a tarp.

The list of approved maintenance equipment includes the FieldTurf GroomRight, the FieldTurf GroomRight Wings, the FieldTurf SweepRight, the FieldTurf SweepRight Pro and the FieldTurf Tow Behind Magnet.



FIELDTURF GROOMRIGHT

The FieldTurf GroomRight is the turf industry's most efficient piece of maintenance equipment. It consists of multiple brushes, rakes and rotating tines. Each of these components can be used individually or all together.

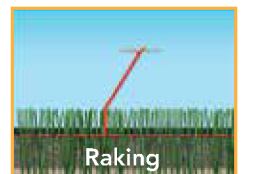
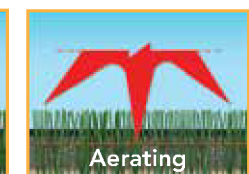
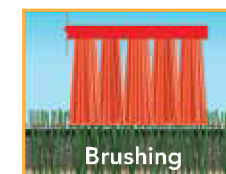
The aerating component features rotating tines located at the center of the unit, to loosen the infill without damage to the fibers.

The brushing and raking components are designed to level the infill while at the same time rejuvenating fibers.

Please be aware that "off the shelf" maintenance equipment can damage your field. If you are unsure if your maintenance equipment is allowable or prohibited, please contact the FieldTurf Customer Service Department.



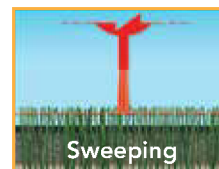
NOTE: Sweeping of the field must be done right after any other maintenance procedure to prevent any foreign material from settling into the infill before usage.



SETTING:

When setting the FieldTurf GroomRight for use, the rotating tines should penetrate the infill by ¾". The rakes should penetrate the infill by ½". The brushes should not penetrate the infill.

- **FREQUENCY:**
 - Raking: 4 - 6 weeks
 - Brushing: 4 - 6 weeks
 - Aerating: Maximum of 3 times / year, ideally after every sport season and after snow clearing, if applicable (beginning in 2nd year)
- **RECOMMENDED VEHICLE:** Small garden tractor, gator or larger vehicle, minimum 20HP, equipped with Turf Tires
- **SPEED: 3 MPH** – always make wide turns



FIELDTURF SWEEPRIGHT

FieldTurf SweepRight is a mechanically driven unit designed to remove larger fallen debris from the FieldTurf surface, and it is the most economical and efficient machine for sweeping. Debris should always be removed as soon as possible. With a dual-speed, dual-brush pickup system, SweepRight is the ultimate turf sweeper. It contains a unique ratcheting device that allows the outside wheel to drive the brushes during a turn so you never lose sweeper efficiency. The system also features a mesh plate to facilitate debris pick-up.

SETTING:

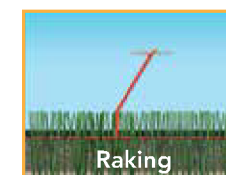
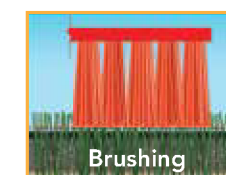
When setting the SweepRight for use, make sure that the brushes never penetrate the infill. Proper removal of debris will only require the brushes to penetrate the top of the fibers.

- Frequency: As needed
- Recommended Vehicle: Small garden tractor, gator or larger vehicle, minimum 20HP, equipped with Turf Tires
- Speed: 3 mph – always make wide turns
- Same setting for the SweepRight and SweepRight Pro.



FIELDTURF SWEEPRIGHT PRO

FieldTurf SweepRight Pro is a gear-driven sweeping system with 6' brush and vibrating debris hopper to sift infill material.



FIELDTURF STATIC BRUSH

FieldTurf Static Brush has a 7' static drag brush and spring tine system. Designed to lift synthetic fibers and level infill material. Brush height and spring tines are independently adjustable.

SETTING:

When setting the Static Brush for use, the brushes should not penetrate the infill. The rakes should penetrate the infill by 1/2".

- Frequency:
 - Raking: 4 - 6 weeks
 - Brushing: 4 - 6 weeks
- Recommended Vehicle: Small garden tractor, gator or larger vehicle, minimum 20HP, equipped with Turf Tires
- Speed: 3 mph – always make wide turns



ACCESSORIES

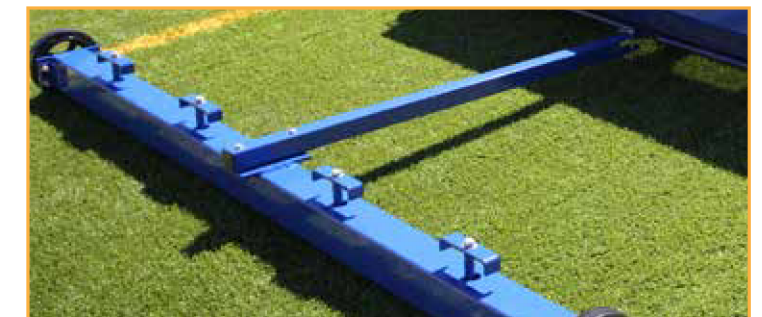
FIELDTURF GROOMRIGHT WINGS

Removable and adjustable brush extensions extend the unit to 14 feet in order to level off infill and raise fibers for better field playability.



FIELDTURF TOW BEHIND MAGNET

- 7' tow behind magnet
- Detachable tow hitch
- Works independently or as an attachment for the SweepRight Pro or GroomRight.
- Quick release pull handle for debris removal



THE FOLLOWING FIELDTURF PRODUCTS HAVE BEEN TESTED AND ARE ENVIRONMENTALLY SAFE TO USE ON FIELDTURF FIELDS.

FIELDTURF SCRUB DETERGENT

FieldTurf Scrub is a powerful turf optimized cleaner, conditioner and sanitizer, which can be used for removal of grease and oil, and is chemically formulated to be compatible with other FieldTurf treatment products, such as liquid static conditioners. Its proprietary surfactant system will also assist in keeping surface drainage at optimum levels. FieldScrub can also be used in an emergency situation to help clean up bodily fluids. It may also be used to clean and decontaminate surrounding surfaces, such as benches, equipment, and other items. FieldScrub's Alkali-free formula is user friendly and rinses freely, leaving no harsh residues. Regular cleaning with FieldScrub alleviates the normal buildup of atmospheric residues and revitalizes the turf fibers.

HOW TO USE:

Dilute Fieldturf Scrub as follows in warm or cold water, and apply by brushing or spraying for spot cleaning and Industrial sprayer for entire field application. RINSE well with clean water before using the field.

Suggested application rate of 1:40 will require 4 liters (1 US Gallon) to cover 10,000 square feet.

- Heavy dirt, grease, equipment fluids and oil – pure to 1:4
- Light dirt, grease and oil – 1:8
- General purpose cleaning – 1:40 to 1:80

RECOMMENDED USE:

Yearly for Outdoor fields. Once/Twice per year for Indoor facilities (with adequate drainage).

FIELDTURF STATIC CONDITIONER

FieldTurf Static Control is specifically formulated for the effective control of electrical static buildup on artificial grass systems. The product is safe for application on FieldTurf surfaces without affecting the color and appearance of your FieldTurf field.

HOW TO USE:

Apply diluted as required to the surface to be treated by spray mist and allow it to dry. The suggested application rate is 850 to 1000 square feet per gallon. Reapply as necessary to maintain desired level of protection.

1 liter will make 22 US Gallons and will cover approximately 20,000 square feet. To minimize aerosol generation application pressure should be kept below 40 psi.



1L



1L

FIELDTURF GUM REMOVER

FieldTurf Gum Remover is an effective all natural biodegradable solvent formulated for removing gum, tar, and adhesives from FieldTurf surfaces. It can also be used as a spot degreaser and deodorizer.

HOW TO USE:

STEP 1:

Using a 1.5-2 inch wide Metal putty knife, isolate the gum with the attached turf fibers by placing the end of the knife at the base of the affected fiber at a 45 degree angle. Push the fibers with the attached gum onto the knife.

STEP 2:

Saturate a small area of a clean white terry rag with **FGR** and apply to the gum resting on the knife surface. Let the solvent penetrate for 1 to 2 minutes to soften the gum, leaving the rag in place. **DO NOT POUR FGR DIRECTLY ON THE GUM, AS THIS MAY DAMAGE THE INFILL AND AFFECT THE BACKING.**

STEP 3:

Holding the knife firmly (taking care not to cut the fibers), gently rub the gum up the putty knife surface toward the handle. This will remove the gum from the FieldTurf surface.



1L

CUSTOMER CONNECT



Customer Connect, FieldTurf's exclusive, customer only area to help connect you with your field. **Join Now** to gain access to a multitude of maintenance videos, brochures, articles and online store where you can now order all your maintenance supplies.

HOW TO JOIN

- > Go to: www.fieldturf.com/en/service/customer-connect
- > Register
- > You'll receive an email confirmation
- > Log in
- > Go to "Education"
- > Go to "Learn"
- > Pick a topic

PAINTING

PAINTING ON FIELDTURF’S FIBERS

Before beginning to paint on your field, it is imperative that you contact FieldTurf’s Customer Service Department for guidance on specific types of paint to use, recommended suppliers, machines, and proper PSI machine settings.

It should be noted that paint buildup over time will affect paint adhesion, aesthetics and possibly drainage in those areas. It is recommended that paint removal be done approximately after every 5 applications before paint re-application is done. It will be equally important to verify the infill below the surface for paint contamination. This area should be flushed through if necessary. In severe cases, where the infill is totally covered in paint, the infill might have to be removed and replaced.

BELOW IS A LIST OF PAINTING SPECIFICATIONS

TYPE OF MACHINE: AIRLESS SPRAYER

- 800-1000 psi for end zones, logos: tip must be handheld 18” above the surface.
- 700 psi for 4” lines: tip must be held 4” above the surface.

It is important to note that the pressure should be adjusted accordingly so that only the fibers are being painted and NOT the infill. Spray angle should be between 45 and 60 degrees.

SPRAY TIP	
415/417	For painting logos and large end zone areas with handheld wand
315/317	For painting 4” lines with airless sprayer lining equipment

ANGLE TO SPRAY: 45 TO 60 DEGREES

Recommended Application Temperature: above 50°F ambient (temperature should not fall below 50°F within 24 hours after the application).

NUMBER OF COATS: Apply in 2 directions to cover both sides of each blade. Fibers have to be dry before recoating (depending on the climatic conditions). End zones and/or logos may need more than 2 applications. Applying a white primer coat is recommended for logos only.

TIME TO DRY: Preferably overnight; otherwise 6 to 8 hours at 70°F and 50% humidity.

PAINT COVERAGE: For two medium coats each way: approximately 200 square feet or 600-700 linear feet per gallon based on a 4” wide line.

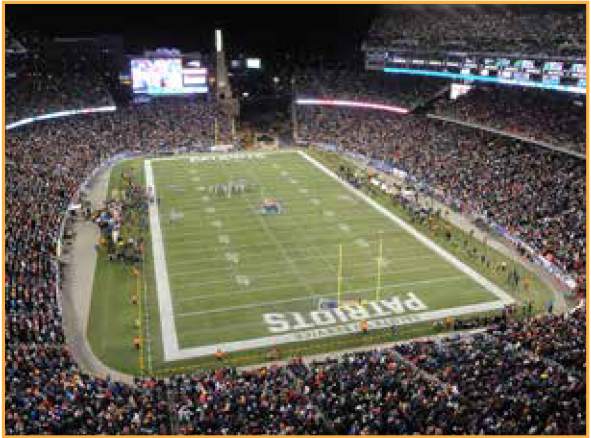
REMOVER COVERAGE: Approximately 500 square feet per gallon or 1500 linear feet based on a 4” wide line.



LIFE EXPECTANCY	OPEN	UNOPENED
Paint	Up to 6 months with lid properly replaced	At least 6 months
Remover	Up to 6 months with lid properly replaced	At least 12 months

DIRECTIVES FOR THE REMOVAL OF LOGOS, END ZONES AND ALL FIELD MARKINGS

1. First and foremost, the surface should be brushed in both directions to allow the fibers to stand up.
2. Apply removing solution, either pure or diluted, depending on what type of paint you are using (only approved removers should be used based on the paint manufacturer's recommendations – contact FieldTurf Customer Service if you are unsure). Brush in both directions, this will ensure full saturation of the grass fibers. Apply the remover a second time and let stand 10 minutes, depending on the climatic conditions. Remover will dry almost on contact in extremely hot conditions. If this is the case, removal should be attempted in short segments.
3. Use of a broom, brush or any grooming or removing equipment approved for the FieldTurf surface might be necessary.
4. Rinse the surface with clean water to remove any extra paint residue. For best results, use hot water.
5. Leave sufficient time for the surface to dry completely before allowing any activity to resume on your field.
6. The rate of removal may vary due to conditions beyond your control (type of paint, number of coats, exposure, etc). It may be necessary for a second application; if so, repeat the process in the opposite direction.
7. Some infill may be displaced. To avoid this, make sure the brushes used do not penetrate too deep into the infill.
8. Any excess paint will likely be deposited into the infill. Buildup over time will cause the infilled surface to harden. FLUSHING THE SYSTEM WITH WATER (PREFERABLY HOT) IS IMPERATIVE.
9. The use of a paint extracting unit is also very effective to prevent buildup over time. It should be noted that if the above steps are followed your FieldTurf system can be painted multiple times over its life.
10. FieldTurf cannot be responsible for any consequences due to non-compliance of the above directives.



ANY SUBSEQUENT MEASURES NECESSARY TO RESTORE THE INFILLED SYSTEM BACK TO ITS ORIGINAL STATE IS NOT COVERED UNDER OUR WARRANTY AND WOULD BE AT THE OWNER'S EXPENSE.

SNOW REMOVAL

Generally, the components themselves that make up the FieldTurf system don't freeze, but of course the moisture that seeps into the Infill does. This creates good conditions that allow you to plow it without moving, or removing much Infill. A snow blower may also be used. One of the most important factors in Snow Removal is the temperature; the ideal climactic conditions for plowing are always below freezing (25F/-5C).

Hopefully the temperature will rise above freezing during the day, and the rest of the remaining snow will melt through, especially if the sun comes out.

Once the snow is removed, if there is only a small crust of ice remaining on the top of the surface, many have successfully used the Rotating Tines on the GroomRight to break up the ice, although some extra weight might be required on the unit. A "Rotary Brush" (nylon bristles only) such as found on the Lay-Mor can be used for the final touches, but this is a delicate operation, so as to not move or remove too much infill.

Plowing periodically during the winter months is recommended to avoid a large buildup which makes removal more tedious.

Page 18 shows the Direction of Operation for Field Grooming, which would also apply to snow removal. If restrictions prevent you from accumulation on the sidelines, then a "north/south" direction is acceptable, since in any case, a small layer of snow will be left behind.

If chosen, even recommended de-icers should always be tested off the main field of play, to ensure the safety of the surface and the lack of residue left behind. Calcium Chloride is preferred over Sodium Chloride, Magnesium Chloride is also acceptable. If you have "Attic Stock", a thin layer of crumb rubber also works.

From experience, there are some things we do know; that a "warm brine" of Calcium Chloride solution is an effective melting solution, but that it does leave a residue, which affects ball handling in football and ball reaction, such as in soccer. Footing can also be slippery, again testing all of the "factors" off the field of play before full field application is recommended.

Aside from any issues with potential corrosion of any exposed metal, Magnesium Chloride should not be harmful to the turf. Also, any residues will pick up moisture, which will reduce the abrasive effect; (i.e. regular salt dries to hard abrasive crystals that can scuff the fibers ... magnesium chloride will pick up moisture from the air and will produce less abrasion).

Keep in mind that we do not know the long-term effect to the backing/coating/tuft bind etc., but we do know that no harm comes to the fibers and infill. Our testing is ongoing.

One final thought is that Mother Nature should provide plenty of rain in the spring to flush these chemicals through the system. It might be a good idea though, when the temperatures remain above freezing for 4-5 days, to water the surface to insure that no residue is left behind.

Typically, the load bearing capacity of the FieldTurf system and sub-base (this should be verified with the Base Contractor) can withstand pressure up to 70 psi (see page 37). Factors to always consider are that if the weather temperature rises above freezing, and both the FieldTurf and base begin to thaw and are wet, then the PSI is affected by these changes in atmospheric conditions, which is no different than with a natural grass surface.

It is always recommended to test the equipment first on the FieldTurf surface but off the main field of play itself. For example, test the equipment at the bench areas or D zones where the panels run parallel to the field and usually leave no markings. You will also be going in the direction of the seams, so this should give you a comfort level for adjustments etc.

Your Customer Service Coordinator can be contacted for assistance with snow removal via our FieldCare program (see page 38), if you choose not to do it yourself. They can also assist you with recommended snow removal attachments, if needed.



VEHICLE CIRCULATION

YOUR FIELDTURF FIELD IS DESIGNED TO ACCOMMODATE VEHICLE LOADS WITHOUT CAUSING DAMAGE TO THE FIELD SURFACE, PROVIDED THE FOLLOWING CONDITIONS AND RECOMMENDATIONS ARE FOLLOWED:

- Do not leave vehicles idling or unattended. Heat generated by the exhaust could singe fibers.
- Ensure that the machines being used on the field are not leaking.
- Typically, bases supporting your FieldTurf field are designed for a maximum load-bearing capacity of 70 pounds per square inch (70 psi). Vehicles circulating on your field should conform to this load-bearing capacity limit, unless your base has been specially designed to support heavier loads. Please refer to your internal design criteria to verify the maximum acceptable load your field can accommodate.
- Only vehicles equipped with pneumatic rubber turf tires should be allowed to circulate directly on the field surface.
- Turning of the vehicle on the surface should be done in a wide radius.
- Turning of the vehicle should only be done when the vehicle is in forward motion.
- All vehicles should circulate at slow speeds at all times.
- Abrupt and sudden braking must be avoided.
- Sudden acceleration and spinning of wheels must be avoided.
- Vehicle wheels should be clean at all times to prevent mud or dirt from being deposited on the field surface.
- All vehicles in direct contact with FieldTurf surfaces should be inspected for possible leakage of oil or hydraulic fluids prior to accessing the field.
- In order to avoid rutting of the infill and of the underlying base, circulation of vehicles on outdoor saturated fields must be avoided.
- To protect against heavy and larger sized vehicle circulation, a layer of ¾" thick plywood must be placed over a vinyl tarp covering the field to a minimum distance of 40' to 60' (12 to 20m) and should be installed at all entrance and exit points to the field.
- Please note: The FieldTurf surface should be groomed and swept following heavy traffic.

HELP

In addition to these guidelines, there are three ways to get answers to any FieldTurf questions you may have:

- 1 – Contact our Customer Service Department at 1-877-725-TURF (8873)
- 2 – Consult our Maintenance Video
- 3 – Visit www.fieldturf.com/maintenance
- 4 – Please contact customer service for any hard copies needed.

FieldTurf®
MAINTENANCE PROGRAM
FIELD CARE

FieldTurf's FieldCare Maintenance Program will help you maintain performance, enhance the longevity of your field and increase the return on your investment.

At each visit, certified technicians execute these 5 procedures:

1. Take multiple infill depth measurements to verify surface planarity.
2. Make minor warranted seam and inlay repairs, not to exceed eight (8) repairs.
3. Add light infill to high-traffic areas.
4. Power clean field perimeter.
5. Provide a written Pre and Post-Session field report.

Advanced Care

Advanced Care is ideal for aged surfaces and/or fields with heavy use. It provides deep grooming and fiber rejuvenation in these 5 steps:

- Deep field decompaction.
- Magnet sweep for metal debris.
- Rotary brushing to raise turf fibers and to deposit any contaminated infill into vibrating screen for debris collection.
- Cleaned infill is then redistributed back into the field using a weighted power brush and vacuum.
- Vacuuming to remove fine dust and debris from field surface.

Standard Care

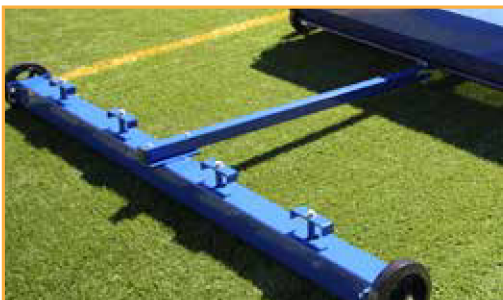
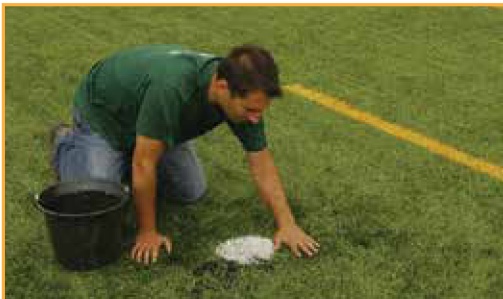
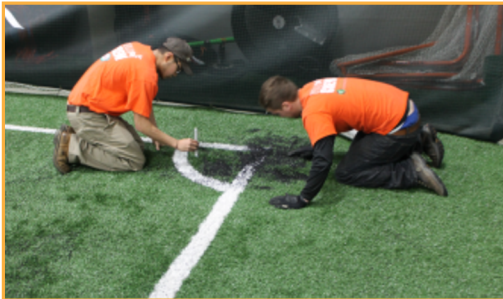
Standard Care provides the 4 basic services for debris removal, field decompaction and infill redistribution:

- Sweep field for large debris.
- Decompact field at appropriate depth for age of fiber and current field conditions.
- Brush in multi-directions with static brush to redistribute infill.
- Re-sweep the field for fine debris.

Custom Care

Custom Care is designed by the FieldCare Service Team to fit your specific maintenance needs. This includes 1 to 6 visits per year with a combination of Standard Care and Advanced Care maintenance, along with other custom services, which include:

- Field line striping
- GMAX testing
- Anti-microbial spray
- Anti-static spray
- Infill top dressing and replenishment
- Removal of clay migration
- Snow plowing



Maintenance Summary Report



NAME OF FIELD/SITE: _____

Time of Arrival: _____ Time of Departure: _____ Service Visit Date: _____

Contact Name: _____ Classification of Service: _____

Phone #: _____ Site Address: _____

Billing Address: _____ Field Square Footage: _____

GMAX: Y _____ N _____ Primary Sports: _____

Service Provider/Technicians: _____ Field Fiber Type: _____

Fiber Height: _____ Install Date: _____

Report Submitted by: _____ Date of Last FC Service Session: _____
(If no date: Please write "NEW FC Customer")

PRE-FIELD INSPECTION NOTES BY TECHNICIAN (FROM WALKTHROUGH):

Maintenance Services Provided: ☐ STANDARD CARE ☐ ADVANCED CARE ☐ OTHER _____

☐ Aggressive Brushing / Leveling ☐ General Field Sweeping ☐ Anti-Microbial Spray ☐ Standard Infill Decompaction
(Not to exceed 1 inch depth)

☐ Static Brush ☐ Field Metal Magnet Sweep ☐ Anti-Static Spray

☐ Power Static Brushing ☐ Static Drag Mat ☐ Refill Infill in High-Traffic Areas
(Rubber/Sand Infill Mix > 250lbs = Additional Charge for Material/Labor).

☐ Power Brush & Vac ☐ Gmax Testing ☐ Tier 2 Decompaction
(Deep-Time Decompaction)

☐ 3-Step Deep Power Grooming
(Only advanced care) ☐ Power Broom
(Perimeter edges & specialty areas) ☐ Total Vegetation Control
(Perimeter edge only) ☐ Infill Cleaning / Sifting / Fiber Rejuvenation

Post Maintenance Field Inspection: Inlays/Seams/Field Markings

Number of minor repairs: Pre-Service Inspection. : _____

Number of minor repairs: Post-Service Inspection : _____

Qty: # of total repairs: _____ Estimated # of linear feet repaired: _____

Picture Submission: ☐

Warranty Billable

Minor inlay and/or seam repairs conducted: ☐ ☐

Turf Replacement: ☐ ☐

FIELD INSPECTION:

☐ 1. Logo Analysis ☐ 4. Infill - Consistency in Depth

☐ 2. Seam Separation Analysis ☐ 5. Infill - Migration Analysis

☐ 3. Perimeter Anchoring ☐ 6. Inlaid Line Analysis

POST MAINTENANCE TECHNICIAN NOTES:

INFILL LEVELS CHECKED PRE MAINTENANCE:

Description	1	2	3	4	5	6	7	8	9	10	AVERAGE
Primary:											0
Additional:					Time of Day: _____						

Primary: The selection of test point locations will be determined by the primary sport.
Additional: Locations determined by the secondary sport.

INFILL LEVELS CHECKED POST MAINTENANCE:

Description	1	2	3	4	5	6	7	8	9	10	AVERAGE
Primary:											0
Additional:					Time of Day: _____						

Reviewed by FieldTurf Personnel: _____ Date: _____

FREQUENTLY ASKED QUESTIONS

WHAT IS CUSTOMER CONNECT?

This exclusive online aid contains news, useful tips and information which will hopefully assist you with overall Maintenance and care of your fields for years to come.

- <http://www.fieldturf.com/en/service/customer-connect>
- [Register](#)
- [Receive Email Confirmation](#)
- [Log In](#)
- [Go to Education](#)
- [Learn](#)
- [Topics](#)

WHAT ARE THE BEST TYPES OF SHOES TO WEAR ON FIELDTURF?

The superior playing characteristics of your FieldTurf surface are directly associated with correct footwear and include: torque release, surface friction and traction. The best types of shoes are molded cleats or screw-ins (maximum recommended is ½"). The footwear designated for natural grass is easily transferable to use on FieldTurf.

- While use of long steel jagged cleats on FieldTurf will not void the warranty, they are not recommended. Limited use is allowable.
- It is important to note that flat-soled shoes and steel cleats do not result in ultimate athlete performance.
- Metal and aluminum rounded molded cleats are acceptable.
- A complete traction study of footwear on FieldTurf is available upon request.

WE HAVE HAD SOME VANDALISM ON OUR FIELD - WHAT DO WE DO?

In all cases, photographs should be taken immediately of any vandalism that has taken place. These will be needed for insurance purposes and should also be sent to the FieldTurf Customer Service Department in order to evaluate the scope of the required repairs.

Burn or singe marks should be evaluated immediately. In some cases, a qualified crew might be able to repair these without replacing sections of the turf. In the case of paint vandalism, it will be imperative to remove the paint as soon as possible, as the longer it stays on the surface, especially in the hot sun, the more difficult it becomes to remove.

Two commercially available removers are safe for use with the FieldTurf system:

- 1) Graffiti remover by Goof-Off
- 2) Zep Heavy Duty Citrus Degreaser

Both of these are most effective when used in conjunction with warm/hot water.

A PRESSURE WASHER IS IDEAL WHEN AVAILABLE; A FEW GUIDELINES TO FOLLOW:

- 1) Apply approved remover first.
- 2) Work it in with a brush, first one way against the fibers, then the other. Hot/warm water can be used on the brush to further activate the remover.
- 3) The pressure washer nozzle should be held no closer than 2' from the grass and at no less than a 45-degree angle.
- 4) Again, going in one direction of the fibers, then back the other way.
- 5) All steps should be repeated if necessary.

It should be noted that in most cases it is not known what kind of paint we are dealing with. The above mentioned removers might not give the results needed. Please contact the FieldTurf Customer Service Department, as several paint suppliers also manufacture various removers that are safe on our surface. They are also very helpful and knowledgeable with removal methods and will be a good phone or on-site resource, if needed.

WHAT EQUIPMENT CAN BE USED TO PAINT AND REMOVE PAINT?

A list of recommended painting and paint removal equipment, as well as painting and removal tips and guidelines, can be obtained by contacting your FieldTurf Customer Service Department.

WE HAVE A SPORTING EVENT ON OUR FIELD WITH NO TIME TO CONFIGURE THE FIELD PROPERLY. CAN WE USE LIME, CHALK, OR TAPE FOR TEMPORARY LINES?

The use of pulverized lime stone such as used on a natural grass field for baseball is not ideal as it tends not to stick to fibers, but simply settle into the infill. Their prolonged use tends to "gum" up the infill and could eventually affect drainage in those areas.

One-time use, if time is a constraint and there are no other options, might be permitted. Please contact FieldTurf Customer Service before proceeding.

Testing the chalk off the field of play is ideal, as it helps adjust your flow rates and allows you to apply as little as possible while still allowing the players and officials to see the lines. Unfortunately, all the tests and attempts that have been done with "tapes" to line fields have not been successful. They are either too tacky, risk pulling out fibers and also risk leaving a residue that has to be taken off with a gum remover or are too flimsy and risk being a tripping hazard.

A chalk paint is ideal for short-term use. Please contact the FieldTurf Customer Service Department for a list of recommended suppliers.

WE USED TO HAVE FIREWORKS ON THE 4TH OF JULY - CAN WE STILL HAVE THEM WITH OUR NEW FIELD?

Whenever possible, direct contact of fireworks should be avoided near our synthetic grass system. However, though some polyethylene fibers could be singed when in contact with live ambers or fireworks, water will immediately alleviate any damage. A fire extinguisher can be used, but water is preferable since it leaves no residue to penetrate the infill; however, either one is fine. Watering the field will certainly help reduce potential damage; however, whenever possible, the field should be covered by a "fire resistant" covering. Contact the Customer Service Department for a list of recommended suppliers.

CAN A LEAF BLOWER BE USED ON THE FIELD?

Yes, this is an effective method of getting rid of leaves, pine needles, dried sunflower seeds, etc. The blower should be held no closer than 2' from the surface and at a 45 degree angle to avoid displacing any of the infill from the field.

HOW DOES CLIMATE AFFECT THE FIELDTURF SURFACE I.E. SNOW, RAIN, AND SALT WATER?

Your FieldTurf surface is designed to withstand a wide range of climatic and atmospheric conditions, such as ultraviolet rays (UV), snow, ice, salt water and sea climates without damage. However, it is essential that the field is washed periodically to remove any salt water deposits on the field surface.

WE SEEM TO HAVE A LOT OF GEESE LANDING ON OUR FIELD WHILE THEY MIGRATE BACK AND FORTH IN THE FALL AND SPRING. WHAT CAN WE DO TO KEEP THEM AWAY?

Several remedies are safe for humans and unpleasant for our feathered friends. Contact our FieldTurf Customer Service Department for further details.

CAN TRACK AND FIELD EVENTS SUCH AS DISCUS, JAVELIN, SHOTPUT BE HELD ON MY FIELD?

- It should be noted that the use of the discus, shotput, javelin and hammer will not void the warranty.
- However, to avoid any damage to the FieldTurf surface the following guidelines must be implemented:
- The surface should be covered with an appropriate tarp or covering so that the FieldTurf surface is not damaged in any way. An un-infilled piece of FieldTurf also works very well.
- FieldTurf recommends that the landing space be rotated each time to avoid use in a concentrated area.
- Grooming of the infill is recommended after each event to ensure that the infill is redistributed properly.
- The Javelin must be equipped with a rubber tip to avoid damage to the FieldTurf system.
- FieldTurf cannot be responsible for any damages caused to the Field by use of any of the equipment mentioned above.

CAN BLEACHING AGENTS BE USED ON FIELDTURF FIELDS?

Oxidizing agents such as bleaching agents should NOT be used on FieldTurf fields.

WHAT DO I DO IF WE SPILL GATORADE ON THE FIELD?

We recommend that the areas with Gatorade or other drinks/fluids be cleaned as soon as possible with water in order to avoid bugs being attracted to the surface or jerseys becoming stained as a result of the spilled liquid.

CAN WE USE TRAINING EQUIPMENT, SUCH AS BLOCKING SLEDS, ON THE FIELD?

Training devices should be used with caution. Though their use does not constitute a breach of your warranty, FieldTurf cannot be responsible for any damage caused by the use of any such training equipment.

Since many manufacturers have developed or modified their Equipment specifically for synthetic systems, it is suggested that they be consulted for their recommendations and guidelines before use.

Our research has yielded some recommended guidelines which include:

- To make use of sleds and various training devices off the main field of play, such as D zones, end zones (if no Inlaid logos appear) and areas away from the main boundaries of play where the panels run parallel to the field and no inlaid markings appear.
- If used on the field of play, it is suggested that it be across the field in the directions that the panels were installed, as opposed to end to end against them.
- It is always recommended to remove the Equipment from the Field after each use.

The same recommendations would apply to the use of “Tire Flipping” as a training aid. Moreover a few specific recommendations would be:

- To make sure that the tires are clean, any dirt will likely get transferred to the turf and Infill.

It is not recommended to use the tires as a “Resistance” tool by dragging them across the turf. Preliminary research has shown that the friction could possibly damage or even pull out some of the polyethylene fibers.

As in other higher use areas on the field, grooming frequencies might have to be augmented to Groom both the Infill and the fibers.

I SEEM TO HAVE BASE DEPRESSIONS OR DIPS ON MY FIELD - WHAT DO I DO?

Base depressions or “dips” that form on a field are not unlike potholes on our roads. The sub-base construction is similar in some aspects to road work. It usually consists of 6” to 10” of crushed stone over the existing soil that was graded and compacted. Over time and especially if the soil is of poor quality or unstable, areas may depress.

The unevenness or depression that has formed is a result of the shifting of the base soil below it. Obviously this then causes the turf system to sink. It should be noted that this is not part of the turf system warranty; however, it should be addressed. Contact your base contractor with any sub-base related issues.

WHY DOES MY FIELD APPEAR TO BE SLOW IN DRAINING?

Slow/insufficient drainage can be caused by a wide variety of factors which include, but are not limited to:

- Poor drain base design
- Utilization of incorrect drain base materials
- Improper drain base construction techniques
- Inadequate infrastructure
- Other outside factors

If these factors have been ruled out or do not seem to be a likely contributing factor, it is possible that the slow drainage is a result of surface tension – a natural phenomenon common in the fabric, carpet and outdoor flooring industry. Surface tension is especially common on recently completed fields. In most cases, the problem resolves itself naturally over the 6 week break-in period as the field is played on. In rare cases, the field could be treated with a surfactant and/or degreasing agent to enhance water penetration and eliminate surface tension.

IT SHOULD ALSO BE NOTED THAT SOME “PUDDLING” OR “PONDING” IS PERFECTLY NORMAL IN CERTAIN CIRCUMSTANCES. IN ALMOST ALL CASES, HOWEVER, THE FIELD SHOULD BE FREE AND CLEAR OF ANY STANDING WATER ONCE THE PRECIPITATION HAS STOPPED FOR APPROXIMATELY 30 MINUTES.

FIELDTURF FIELD SETTLING

FIELDTURF HAS PROVEN TO BE THE HIGHEST PERFORMING AND THE MOST DURABLE BRAND OF ARTIFICIAL TURF IN THE WORLD. THE FIELDTURF SYSTEM IS AN ENGINEERED PRODUCT CONSISTING OF SPECIALIZED COMPONENTS ALL GEARED TOWARDS MAXIMIZING ATHLETE SAFETY AND FIELD PERFORMANCE.

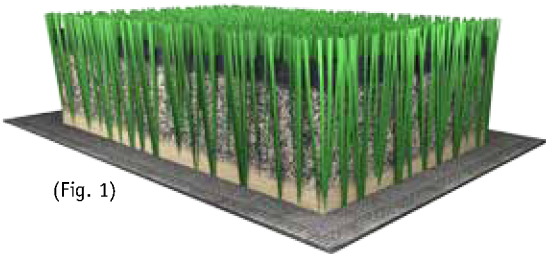
In addition to industry-leading manufacturing and service standards, what sets FieldTurf apart is the patented 9 lb / square foot sand and rubber infill system, along with the world’s most durable fiber that is exclusive to FieldTurf.

It is important for field owners to understand what constitutes normal behavior of these vital components over time. Below are the three major stages that a field will go through in order to achieve its optimal level of performance. These three stages are not only normal but a necessary progression in the life of an artificial turf field.

INITIAL

The field has just been installed. Fibers are upright and infill is slightly higher and looser.

Approximate duration for this stage depending on use and proper maintenance: years 0-1 (Fig. 1)



(Fig. 1)

SETTLED

Fibers are not as upright and are beginning to layover in order to encapsulate the infill and provide for a more grass-like appearance. The infill height has been lowered and has settled to its ideal level of 3/4” below the tip of the fiber held in an upright position.

Approximate duration for this stage depending on use and proper maintenance: years 2-5 (Fig. 2)



(Fig. 2)

MATURED

The fibers have laid over and the infill height remains at its ideal level. During these years, the consistency and durability of the FieldTurf system is brought to the forefront as the product continues to exude ideal levels of safety and performance after heavy use.

Approximate duration for this stage depending on use and proper maintenance: years 6-8+ (Fig. 3)



(Fig. 3)

FIELDTURF MAINTENANCE GUIDELINES

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