



Technical Guide

FlexSand Action uniquely combines two engineered elastomers and high-purity quartz sand, to create a specially formulated synthetic turf infill. This new infill solution provides excellent shock absorption qualities and the ballast performance of raw sand, while minimizing health and environmental concerns.

Specifically engineered to address the deficiencies inherent in both raw sand and crumb rubber infill, FlexSand Action eliminates static charge, has an ultra-low abrasive index, absorbs less heat, is UV resistant, and is a safe alternative for those concerned about potential health issues associated with crumb rubber. Additionally, FlexSand Action contains no heavy metals or harmful chemical compounds, and uses cross-linking, a method of molecular bonding, which ensures the coating's integrity under even the harshest of conditions.

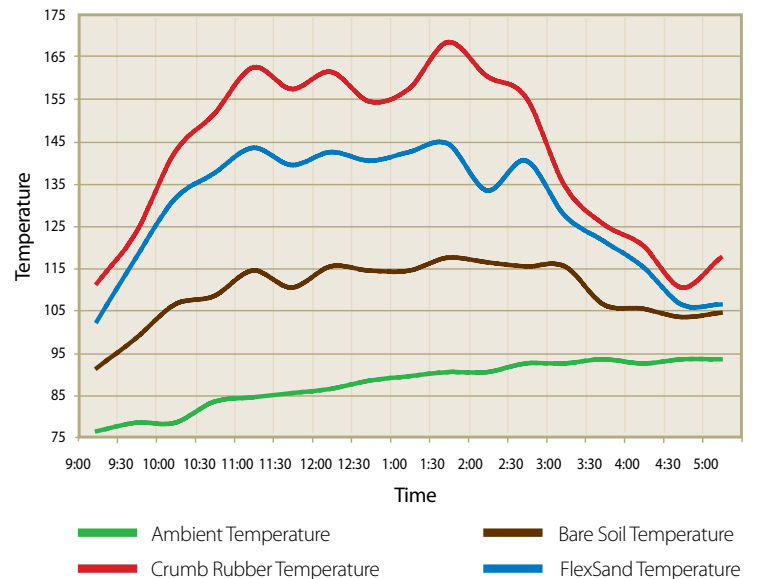
The FlexSand Action Advantage

- Contains a food-grade, FDA compliant elastomer
- Keeps athletic fields and players cooler
- Won't cling to skin or uniforms
- Won't separate like crumb rubber mixtures for better blade support and easier maintenance
- Provides excellent shock absorption over the life of your field
- Helps maintain even infill distribution with reduced "kick-out"

Applications

- Synthetic turf
- Sports fields
- Residential and commercial lawns

Synthetic Turf Surface Temperature with No Wind



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Typical Specifications

Product	Infiltration Rate (in/hour)	Bulk Density (lbs/cuft)	Uniformity Coefficient
FlexSand Action	32.1	75.0	1.8

Fire Rating

ASTM E648: Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.

Average Critical Radiant Flux	NFPA Classification
1.02 Watts/cm ²	Type 1 (fire resistant)

Traction

ASTM WK486: Test Method for Traction Characteristics of Athletic Shoe – Sports Surface Interface

Sample Tested	Static	Dynamic	Rotational (Nm)
No Wear	1.53	1.21	43.3
Wear ¹	1.51	1.14	44.0

41 oz Carpet (2 inch carpet height) with 1.5 in infill of FlexSand Action

Abrasiveness

ASTM F1551: Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces.

Abrasive Index (AI)
12 ± 2

One of the lowest in the Synthetic Turf Industry

Shock Absorbing (G-MAX)

ASTM F355: Test Method for Shock-Absorbing Properties of Playing Surface Systems and Materials

Sample Tested	G-Max
No Wear	111.2
Wear ¹	136.1

41 oz Carpet with 1.5 in infill of FlexSand Action

Impactions	2nd Drop	3rd Drop	Average G-Max
Initial	107	115	111
@100	118	124	121
@200	125	129	127
@300	129	125	127
@400	139	133	136
@500	128	126	127

41 oz Carpet with 1.5 in infill of FlexSand Action

Ultimate Gmax is defined as the highest predicted attainable Gmax inherent in a system configuration.

¹ The area receiving wear was exposed to wear over a 2-day period with the Brinkman Traffic Simulator. Data was collected after the plots received 250 passes with the traffic simulator which simulates 125 games.



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