S-Fill

- Sanitary
- Environmentally Safe
- Coated SiO_2 Beads
- Virtually Dust Free
- 100% Reusable
- Low Angle of Repose
- Nonflammable
- Excellent Shock Absorbing Qualities
- Repels Water
- Resist Compacting
- Consistent Sizing
- Nontoxic
- No Heavy Metal

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S-FILL

Synthetic turf infill

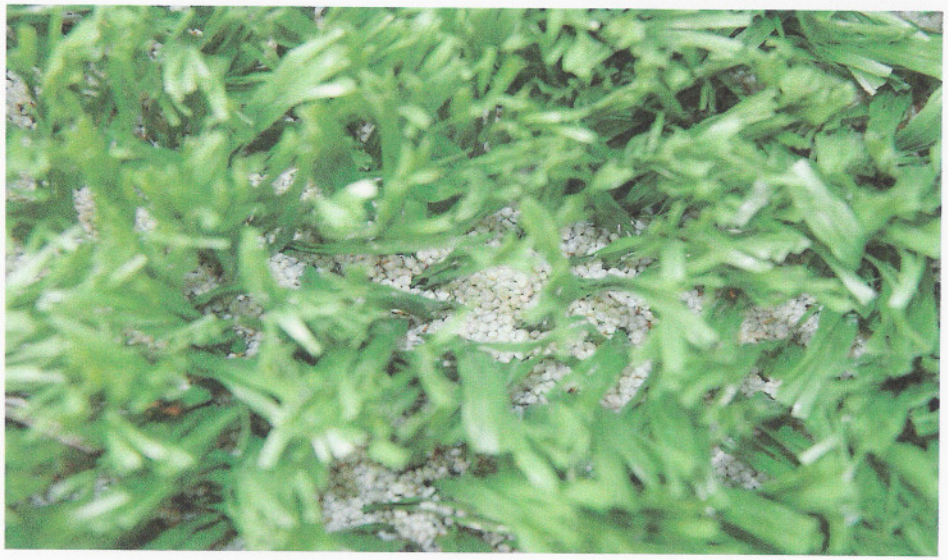
The only product specifically developed as a filler for synthetic turf applications

Sports Fields

Landscape Turf

Putting Greens

Playgrounds



S-Fill is a color-coated, clean, dust free and specially sized silicon dioxide bead. Its design addresses all major concerns, such as the environment, safety, playability, durability, health, coolness and flammability, to make it a complete filler for all synthetic turf applications.

Silicon dioxide is covalently bonded in a three dimensional network of billions of atoms. The interior of each bead contains twice as many oxygen atoms as silicon atoms, which can be represented by the formula SiO_2. However, the surface of the bead contains oxygen atoms that are covalently bonded to the hydrogen atoms. These are polar covalent bonds, like the Oxygen and Hydrogen bonds in water molecules. This means that both the surface of the silicon and the water molecules carry partially positive and negative charges and, consequently, water is attracted to the bead. Silicon is hydrophilic (water loving).

Silica, by its very nature, helps the coating process by drawing the coating to itself in a thin layer. This proclivity of silica makes coating more efficient and cost effective. Our specially formulated coating both clings to tiny cracks and fissures in the silica and is chemically bonded to the surface to form a double bond. This process is uniquely designed to be quite durable through many lives of synthetic turf.

S-Fill does not have the same SiO_2 surface exposed after coating and does not attract water. It could be said to be hydrophobic (water hating), hence comes its anti-microbial features. **S-Fill** may become wet, but no moisture will be absorbed.

S-Fill

TEST	TEST METHOD	RESULTS
Abrasiveness	ASTMF1015	12+
Shoe Traction Dry	ASTMF1551	0.8
Shoe Traction Wet	ASTMF1551	0.86
Flammability	ASTME648	Non Flammable
G-Max	ASTMF355	88+
Microbiological Analysis		
Staph	ATCC6538	99.93% reduction
Heavy Metal	6010/7470	Trace
Wear Analysis	Linear Abrader	Undisturbed
Vertical Drainage	BS7044	42 in/hr