SealBoss®

1640 HOT SHOT Structural Strength Leak Seal & Void Filler Foam Cartridge

Product Data Sheet

SealBoss® 1640 Dry & Wet Applications

- Leak Seal, Void Filler, Stabilizer
- Undersealing of Structures

Dry Reactive, Fast Cure, Hydrophobic
Two Component Polyurethane Foam & Seal
Injection Foam Grout

Seal - Fill - Densify

Product Description

SealBoss® 1640 is a closed cell, two-component, non-shrink polyurethane foam with structural properties. This MDI (methylene-diphenyl-isocyanate) based product is 100% solvent free and 100% solids. The product starts to react when mixed and does not need moisture from external sources for the reaction. SealBoss® 1640 expands up to eight times forming a closed cell structure and cutting down the material consumption drastically. The cured foam offers limited structural strength combined with increase in volume and excellent bonding properties on dry and with limitations on wet surfaces.

SealBoss® 1640 S is designed to fill voids in soil and stone, brick or concrete structures for the purpose of waterproofing as well as regaining certain structural strength. The excellent combination of hardness and flexibility qualifies SealBoss® 1640 for use in areas where structural strength and moderate flexibility are desired.

The expanding and compressive strength qualities of SealBoss® 1640 Structural Strength SlabLifter™ make it a price competitive alternative for the filling of voids and 'pockets'. The structural strength of the foam product is highly correlated to the expansion rate. SealBoss® 1640 Structural Strength SlabLifter™ can be applied in dry and wet areas. Additional moisture may increase the expansion. The standard mixture expands approximately six times in volume. Job site testing is recommended to determine product suitability. To achieve most satisfying and permanent results in certain applications, a combination of SealBoss® 1640 with other systems of our product line may be advised.

SealBoss® 1640 is not designed to stop high velocity water leaks. To stop active water leaks please refer to ***SealBoss® 1510 Water Stop Foam***. Ask your SealBoss® technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 1640 Structural Strength Foam is a two-component foam system. The mixing ratio is 1:1 (A:B) by volume. Condition the product to room temperature prior to use. The product is also available in bulk.

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Technical Properties

Components	TEST METHOD	COMP. A	COMP. B	COMP. A/B Mixed
Solids		100%	100%	
Viscosity A/B mixed	ASTM D-2393			280-400 mixed
Specific gravity	ASTM D-1638	1.2	1.04	
Weight per gal, lb		10.0	8.68	
Mix ratio	by weight	52	48	
	by volume	50	50	

Cured Material	
Density	4 lbs/ft³
Compressive strength	11,520 psf (80 psi) (fully cured)
Physical Properties	
Initial Reaction Time	5 seconds to 20 seconds (depending on temperature)
Rise time, minutes	2–4
Tack free time	60 seconds to 240 seconds (depending on temperature)
Max. Expansion (unconfined)	20 times (2000%)
Shrinkage	<1% ASTM D-1042 / D-756
Packaging	
Cartridge Systems	22 oz (650 ml)
Bulk	5 gal 5 gal 55 gal 55 gal Tote Tanks
Storage	1 year. Unopened containers at 15-30°C, 58-85°F Store indoors Cartridges: 9 months
Corrosiveness	Non-Corrosive
Appearance	Gold-Yellow Polyurethane Foam
Resistance to Chemicals	High Resistance to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms Mild Acids, Alkali and Micro Organisms

Health and Safety

Protect your health! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

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