

SealBoss® 1600 StrongFoam™

RANGE OF APPLICATION

- Deep Injection Process Grout Applications
- Filling of Voids
- Soil Stabilization & Densification
- Pavement Lifting
- Repair of
 - Defective Concrete
 - Concrete Joints
 - Brick Construction

TYPE OF MATERIAL

SealBoss® 1600 StrongFoam 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. The cured foam offers limited structural strength combined with increase in volume and excellent bonding properties on dry and with limitations on wet surfaces. The product is not a replacement for typical epoxy injection but offers an alternative for filling larger spaces that demand limited structural strength. The compressive strength of the reacted product is typically much higher when filled with an inert mineral such as sand.

SealBoss® 1600 StrongFoam 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® 1600 StrongFoam** for use in areas where structural strength and moderate flexibility are desired.

SealBoss® 1600 StrongFoam is an excellent soil solidification foam which can be used to seal, lift, fill and densify soil next to and under structures such as roadways, driveways, runways, patios and other buildings by utilizing a deep grout injection process.

The expanding and compressive strength qualities of **SealBoss® 1600 StrongFoam** make it a price competitive alternative for the filling of large voids and 'pockets'. The structural strength of the foam product is highly correlated to the expansion rate and the use of inert fillers such as sand. On the job testing may be necessary to determine the suitability. **SealBoss® 1600 StrongFoam** is a polyurethane foam that increases its volume up to eight times in its original formulation, forming a closed cell structure. The 600% to 800% increase in volume cuts down the material consumption drastically. **SealBoss® 1600 StrongFoam** can be applied in dry and wet areas. Additional moisture may increase the expansion. The standard mixture expands approximately six times in volume. For larger orders the material can be custom designed to allow more or less expansion and to increase or decrease the gel time. To achieve most satisfying and permanent results in certain applications, a combination of **SealBoss® 1600 StrongFoam** with other systems of our product line may be advised. Ask your **SealBoss** technician for details.

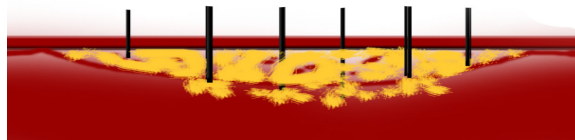
SealBoss® 1600 StrongFoam is not designed to stop high velocity water leaks. To stop active water leaks please refer to **SealBoss® 1510 Water-Stop-Foam**.

PROCESSING

SealBoss® 1600 StrongFoam is a pre-adjusted two-component foam system.

The mixing ratio is 1:1 (A:B) by volume. At room temperature the pot life is approximately five to eight minutes. The expansion process will last for approximately twenty minutes. The material will be completely cured after sixteen hours.

'Dry Reactive' Hydrophobic Polyurethane Foam Froot With Structural Properties To Lift - Seal - Fill - Densify



Injecting **SealBoss® 1600 StrongFoam** through injection needles into soil cavity under roadway

It is essential for all equipment to be dry. Avoid any moisture contact with the mixture to prevent premature reaction of the product. If reaction of the batch occurs while pumping, immediately shut down the machine and flush as recommended below to avoid built up and clogging of the equipment.

MAINTENANCE OF EQUIPMENT

Remove all excess product and any smears. Tools and mixing equipment must be cleaned immediately after use. **R70 Pump Flush** is good to your equipment and should always be used. For best results please follow our recommendations.

First Step is conditional - Omit if in conflict with regulations on the jobsite or the equipment you use: Flush first with a very small amount of solvent (not supplied by us) to cut remaining material. Caution: Xylol, Toluol, Acetone, M.E.K. are hazardous, combustible, aggressive towards the environment, equipment, seals and hoses. Immediately follow second step.

Second Step: Flush with **R70 Pump Flush** circulate cleaner through pump and hoses for several minutes at higher flow rates. **R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator and pump and hose conditioner. The product ships without any hazard label. We assume no responsibility for equipment damaged by use of material.

PRECAUTION

Protect your health! While working with this material, safety goggles, gloves and safety clothing must be worn at all times. While injecting, a full face shield is strongly recommended. Spills and blow-outs do happen! Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children!

Observe container labels, MSDS, and instructions in the Product Catalog before using the product and equipment. 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.

SealBoss® 1600 StrongFoam™



**'Dry Reactive' Hydrophobic Polyurethane
Foam Froot With Structural Properties To
Lift - Seal - Fill - Densify**

Technical Data

	Comp. A	Comp. B	
Appearance	Yellowish/Brown	Clear	
Solids	100%	100%	ASTM D 1010
Density, g/ml	1.12	1.10	ASTM D 3800-79
Viscosity, cps	680	580	ASTM D 1638-74
Mixing Ratio by Volume	1	1	
Application Temp.	>10C/50F	>10C/50F	
Packaging	5 Gal 55 Gal	5 Gal 55 Gal	
Storage	Good storage stability for unopened containers at 15 - 30 C 58 - 85 F. Store indoors.		
Cured Product			
Max. Expansion, %	600		
Induction Time, 20C/68F	3 Min.		
Gel time, 20C/68F	5-10 Min.		
Cure Time (Full Strength)	16 Hours		
Elongation, %	>5	ASTM D 638	
Tensile Strength	600 psi		
Compressive Strength, Sand Filled	60-70 psi	ASTM D1621	
Corrosiveness	~1900psi (unfilled foam will offer considerably lower psi rating)		
Appearance	Non-Corrosive Gold-Yellow Polyurethane Foam		
Toxicity	Essentially Non-Toxic in Cured Form MDI Based		
Resistance to Chemicals	High Resistance to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms		

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