

SealBoss® 1640 SlabLifter & WaterPlug

2 Component Foam Formulation, 1:1 Ratio

RANGE OF APPLICATION

- Lifting Of Concrete Slabs And Foundations
- Undersealing Of Slabs And Foundations
- Filling of Voids
- Instant Water-Plug Applications

TYPICAL STRUCTURES

Concrete Highways, Airport Runways, Taxiways, Bridge Approach Slabs, Concrete Slab Floors, Concrete Pipes, Unconsolidated Soil, Large Cracks

TYPE OF MATERIAL

SealBoss® 1640 SlabLifter (TM) & Water Plug Foam 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® 1640 SlabLifter (TM) & Water Plug Foam 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 SlabLifter (TM) & Water Plug Foam** for use in areas where structural strength and moderate flexibility are desired.

SealBoss® 1640 SlabLifter (TM) & Water Plug Foam 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.

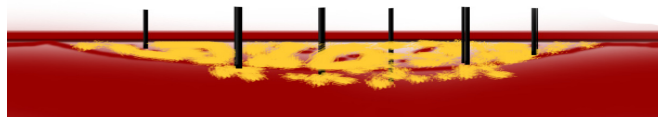
The expanding and compressive strength qualities of **SealBoss® 1640 SlabLifter (TM) & Water Plug Foam** make it a price competitive alternative for the filling of large voids and 'pockets'. The structural strength of the foam product is highly correlated to the expansion rate and the use of inert fillers such as sand. On the job testing may be necessary to determine the suitability. **SealBoss® 1640 SlabLifter (TM) & Water Plug Foam** 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® 1640 SlabLifter (TM) & Water Plug Foam** 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® 1640 SlabLifter (TM) & Water Plug Foam** with other systems of our product line may be advised. Ask your **SealBoss** technician for details.

SealBoss® 1640 SlabLifter (TM) & Water Plug Foam is not designed to stop high velocity water leaks. To stop active water leaks please refer to **SealBoss® 1510 Water-Stop-Foam**.

PROCESSING

SealBoss® 1640 SlabLifter (TM) & Water Plug Foam is a pre-adjusted two-component foam system.

Fast Cure Hydrophobic Polyurethane Foam With Structural Properties To Lift - Seal - Fill - Densify



Injecting **SealBoss® 1640 SlabLifter Foam** through injection needles into soil cavity under roadway

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.

Due to the short gel time, dual-component equipment is deemed mandatory for injection. In some cases the product may be poured. Independent of the application procedure, the components need to be thoroughly mixed either in a container prior to the application or by the use of a static mix head just before the injection.

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.

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TYPICAL PHYSICAL PROPERTIES		TEST METHOD	COMPONENT A	COMPONENT B	COMP. A/B Mixed
Components					
Solids			100%	100%	
Viscosity A/B mixed		ASTM D-2393			280-400 mixed
Specific gravity		ASTM D-1638			
Weight per gallon, lbs			1.2	1.04	
Mix ratio			10.0	8.68	
		by weight	52	48	
		by volume	50	50	
Cured Material					
Density,		4 lbs./ft.³			
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		None ASTM D-1042 / D-756			
Packaging					
		Cartridge Systems	22 oz (650ml) and 56 oz (1500ml)		
		Bulk	5 Gal	5 Gal	
			55 Gal	55 Gal	
Storage					
		Good storage stability for unopened containers at 15 - 30 C 58 - 85 F. Store indoors.			
Corrosiveness					
		Non-Corrosive			
Appearance					
		Gold-Yellow			
Toxicity					
		Polyurethane Foam			
		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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