

SealBoss®

1500 Water Stop Foam 2-Component Formula



Product Data Sheet

SealBoss® 1500 Applications

SealBoss® 1500 Water Stop Foam for infiltrating & gushing water:

- Defective Concrete (Cracked or Honeycombed)
- Concrete Construction Joints & Cracks
- Limestone
- Basements, Parking Garages, Brick Construction
- Pipe Intrusions
- Tunnels, Dams, Bridges
- Sewers, Manholes, Utility Boxes

Product Description

SealBoss® 1500 Water Stop Foam is a hydrophobic, water-activated (hydro-active), water cut-off grout and foam seal grout based on a phthalate free, MDI polyurethane. The product is 100% solvent free, 100% solids two component formulation to be mixed at a 1:1 ratio by volume. Upon contact with water SealBoss® 1500 Water Stop Foam reacts to a semi flexible foam while expanding its volume 30 to 40 times. The cured material is of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not effected by water or dryness. The reacted material essentially does not shrink or swell.

The advanced 1:1 formulation of the product results in a very dense, closed cell structure when injected under pressure. Very low counter pressure will result in a less rigid more expanded product. For best waterproofing results a closed cell structure is desired. Due to the low viscosity of the material, SealBoss® 1500 Water Stop Foam offers good penetration in hairline crack injection. The product can be used for the filling of voids, cracks and honeycombing in stone or concrete structures. The moisture content of the soil must be sufficient to ensure reaction. To achieve most satisfying and permanent results in certain applications, a combination of SealBoss® 1500 Water Stop Foam with other systems of our product line may be advised. Ask your SealBoss® technician for details. The product is for professional use.

Installation Guidelines

The product is available in bulk or in cartridges as part of the **SealBoss® Water Stop Foam Cartridge System**. The mix ratio by volume is 1:1. The product can be pumped with either single or two-component equipment. When used with single component pumps mix product thoroughly before applying. Be aware of the highly water reactive nature of the mixed material. Observe temperature and humidity of the environment, since both determine the pot-life of the premixed batch. Do not mix more material than the amount that will be pumped within reasonable time. Rule of thumb: High temperatures and high humidity decreased gel-time.

SealBoss® 1500 Water Stop Foam reacts with the moisture in the structure and does not need large amounts of water to react. Simultaneous injection of water is typically not necessary. If the area of application seems to be completely dry, pre-injection of water may be recommended in some circumstances.

All equipment, pumps and hoses must be dry. Avoid moisture

Water Activated, Polyurethane Waterstop & Seal Injection Foam Grout

SealBoss® 1500 Water Stop Foam Advantages:

- SealBoss® Product-Pump-Packer System Solution
- 1:1 Ratio, 2 Component Cartridge System Formula
- Unregulated For Transport
- Advanced Phthalate Free, MDI Formulation
- This Product is for Professional Use

contact with the mixture to prevent premature reaction. If product foams while pumping, immediately shut down the machine and flush with a cleaner to avoid built up and clogging of the equipment.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! 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. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions 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. Get immediate medical attention as needed.

Tips for Cartridge Users

- Shake cartridge prior to all applications and each time it is used for a minimum of 1 minute.
- Remove air from system - prime cartridge by slowly dispensing product from cartridge into mixer in vertical orientation until mixer is completely filled.
- Discard a small amount of product prior to application. Ratio may be slightly off when initial product travels through static mixer. Once uniform mixture is observed, product is ready for application.
- Dispensed product is highly water reactive and will expand to foam.

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Technical Properties

	1500 Comp. A	1500 Comp. B
Appearance	Colorless	Brown
Solids	100%	100%
Density, lb/gal - g/ml	1.12	0.93
Boiling Point, °C / °F	205°C / 400°F	170°C / 338°F
Flash Point, °C / °F	180°C / 356°F	125°C / 225°F
Viscosity, cps	90-98	90-98
Mixing Ratio, by Volume	1:1	
Solubility in Water	not	
Packaging	22 oz dual cartridge 5 gal	5 gal
Storage / Shelf Life	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors Bulk - 12 months Cartridges - 9 months	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors Bulk - 12 months Cartridges - 9 months
Reaction		
Induction Time, 20°C / 68°F	15 sec	
Initial Cure Time, 20°C / 68°F	2 min	

Properties Cured

Physical properties may vary based on water ratios & conditions	
Expansion, %	approx. 4000 (40 Times)
Elongation, %	10-20 ASTM D 3574
Tensile Strength	65 psi ASTM D 3574
Shear Strength	>15 psi
Strength (Sand Filled)	1500 psi
Corrosiveness	Non-Corrosive
Resistance	Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms



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Revised 202501

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