SealBoss®

1570LV Water Stop Foam & 15X Accelerator

Product Data Sheet

Drinking Water Contact Approved NSF/ANSI 61

SealBoss® 1570 LV Applications

SealBoss® 1570 LV Water Stop Foam for infiltrating water:

- Hairline Crack Injection
- Defective Concrete (Cracked or Honeycombed)
- Concrete Construction Joints & Cracks
- Brick Construction, Geo Formations
- Pipe Intrusions
- Waste Water Tanks, Water Reservoirs
- Tunnels, Dams, Soil Stabilization
- Sewers, Manholes, Utility Boxes

Water Activated, Polyurethane Waterstop & Seal Flexible Injection Foam Grout

SealBoss® 1570 LV Water Stop Foam Advantages:

- SealBoss® Product-Pump-Packer System Solution
- 90 CPS Super Low Viscosity
- Unregulated For Transport
- MDI Formula
- Minimum 10% Accelerator Required

Product Description

SealBoss® 1570 LV Water Stop Foam mixed with ***SealBoss® 15x Accelerator*** is a super low viscosity, flexible, hydrophobic, water-activated (hydro-active), water cut-off grout and foam seal grout based on MDI polyurethane. The resin is 100% solvent free and 100% solids. The gel-time of the product is adjustable by the mandatory adding of a minimum of 10% SealBoss® 15x Accelerator and a maximum of 20% SealBoss® 15x Accelerator. SealBoss® 1570 LV WaterStopFoam is NSF/ANSI Drinking Water Contact Approved.

Upon contact with water SealBoss® 1570 LV Water Stop Foam reacts to a flexible foam while expanding its volume 8 to 25 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 does not shrink or swell.

Depending on the amount of accelerator added, the injection pressures, structure and confinement properties, SealBoss® 1570 LV WaterStopFoam reacts to a dense, closed cell, semi flexible product with highly effective waterproofing properties.

SealBoss® 1570 LV Water Stop Foam is designed for sealing seeping water leaks and for cutting off water in cracks and joints. Due to the low viscosity of the material, SealBoss® 1570 LV Water Stop Foam offers superior penetration in hairline crack injection. The product is suitable for the filling of spaces, cracks and honeycombing in stone or concrete structures. To achieve most satisfying and permanent results in certain applications, a combination of SealBoss® 1570 LV WaterStopFoam with other systems of our product line may be advised. Ask your SealBoss technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 1570 LV Water Stop Foam and the SealBoss® 15X Accelerator are supplied separately to allow adjustment of gel-time and to provide a long shelf life. It is mandatory to add SealBoss® 15X Accelerator to ensure a complete reaction as designed. A higher percentage of Accelerator added will increase reactive speed, expansion volume and will lower the density of the product accordingly. The accelerator system offers a very flexible range of reactive properties, gel-time and expansion rate which make this product extremely versatile for many applications. Since the end product is of cellular structure, a higher density is favored for best waterproofing properties. Recommended mix ratios are between 10% and 20% of Accelerator added. In situations of high water flow rates and /or low temperatures, ratios may be increased to 20%. For hairline crack injection and soil stabilization ratios may be lowered to 10%.

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® 1570 LV 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 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

SealBoss® R70 Pump Flush is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Remove all excess product and any smears. Tools and mixing equipment must be cleaned immediately after use. Cured product is hard to remove. First Step, and only if in compliance with all applicable regulations on the jobsite: Flush with a very small amount of approved solvent. Observe all hazard warnings. Second Step: Flush with SealBoss® R70 Pump Flush circulate cleaner through pump and hoses for several minutes at higher flow rates.

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.

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Technical Properties

	1570 LV Water StopFoam	15X Accelerator	
Appearance	Amber	Clear	
Solids	100%	100%	ASTM D 1010
Density, lb/gal - g/ml	8.9 / 1.1	0.93	ASTM D 3800-79
Boiling Point, °C / °F	205°C / 400°F	170°C / 338°F	
Flash Point, °C / °F	180°C / 356°F	125°C / 225°F	ASTM D 93-85
Viscosity, cps	~ 90 mixed	20	ASTM D 2196
Mixing Ratio by Volume (2%-10% accelerator)	50-5 parts	10%-20%	
Solubility in Water	not		
Packaging	1 gal 5 gal 55 gal	0.1 gal 0.5 gal	
Storage / Shelf Life	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors 2 years - 5 gal / 55 gal 1 year - 1 gal units	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors 2 years	

Reaction

Induction Time, 20°C/68°F	35 sec (10% 15X added)
Gel time, 20°C/68°F	140 sec (10% 15xs added)

Properties Cured

Physical properties may vary based on water & accelerator ratios & conditions during reaction

Expansion, %	600-2500 (6-25 Times) depending on Accelerator ratio & counter pressure		
Elongation, %	250	ASTM	D 638
Shrinkage <2%	ASTM	D1042	
Tensile Strength	100-120 psi	ASTM	D 638
Strength (Sand Filled)	1550 psi		
Corrosiveness	Non-Corrosive		
Appearance	Yellowish-White Polyurethane Foam		
Toxicity	MDI Based, Good Resistance to Chemicals Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms		

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Revised 202012

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