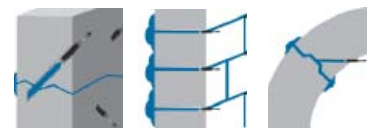


DDi

1510 WaterStopFoam & 15X Accelerator

Product Data Sheet



DDi 1510 Applications

Water Stop Foam for infiltrating & gushing water:

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

Water Activated Polyurethane Water Stop Seal Injection Foam Grout

DDi 1510 Advantages

- DDi Product-Pump-Packer System Solution
- Unregulated For Transport
- Advanced Solvent Free MDI Formulation
- Phthalate Free Formulation Available
- This Product is for Professional Use

Product Description

DDi 1510 Water Stop Foam mixed with **15x Accelerator** is a hydrophobic water-activated, (hydro-active), water cut-off grout and foam seal grout based on a 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 certain percentage of 15x Accelerator. A phthalate free formulation (F) is available.

Upon contact with water 1510 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.

Depending on the amount of accelerator added and the pressure of injection, 1510 Water Stop Foam reacts to a dense, closed cell, semi rigid material or a more open cell, semi flexible product. For best waterproofing results the closed cell structure is desired. 1510 Water Stop Foam is designed for sealing water leaks and cutting off gushing water. Due to the low viscosity of the material, 1510 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, and can be applied as a non-shrink, high strength soil stabilization grout when used with a reduced accelerator ratio. 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 1510 Water Stop Foam with other systems of our product line may be advised. Ask your DDi technician for details. The product is for professional use.

Installation Guidelines

1510 Water Stop Foam and the 15X Accelerator are supplied separately to allow adjustment of gel-time. It is mandatory to add 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 3% and 10% 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 less than 5%. 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.

1510 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

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **DDi 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.

1510 WaterStopFoam & 15X Accelerator



Technical Properties

	1510 WaterStopFoam	15X Accelerator
Appearance	Amber	Clear
Solids	100%	100%
Density, lb/gal - g/ml	1.12	0.93
Boiling Point, C / F	205C/400F	170/338F
Flash Point, C / F	180C/356F	125C/225F
Viscosity, cps	160-250	20
Mixing Ratio by Volume (2%-10% accelerator)	50-10 parts	1part
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 / 58-85F in dry, sun free indoors 2 years - 5 gal / 55 gal 1 year - 1 gal units	Unopened Containers Only at 15-30 C / 58-85F in dry, sun free indoors 2 years
Reaction		
Induction Time, 20C/68F	30 sec (10% 15X added)	
Gel time, 20C/68F	70 sec (10% 15xs added)	
Induction Time, 20C/68F	15 sec (15% 15X added)	
Gel time, 20C/68F	50 sec (15% 15xs added)	
Properties Cured		
Physical properties may vary based on water & accelerator ratios & conditions during reaction		
Expansion, %	600-4000 (6-40 Times) depending on Accelerator ratio & counter pressure	
Elongation, %	10-20	ASTM D 638
Shrinkage, %	<4%	ASTM D1042
Tensile Strength	65 psi	ASTM D 638
	>100 psi (>2% Accelerator, product reacted under pressure)	
Strength (Sand Filled)	1550 psi	
Corrosiveness	Non-Corrosive	
Appearance	Yellow-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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