

WEBAC 151

VERSATILE POLYURETHANE WATER-CUT-OFF & SOIL STABILIZATION GROUT

WEBAC 151

RANGE OF APPLICATION

Waterstop for infiltrating and gushing water:

- Defective Concrete (Cracked or Honeycombed)
- Concrete Joints
- Limestone
- Brick Construction
- Pipe Intrusions
- Waste Water Tanks
- Drinking Water Reservoirs
- Sewers, Manholes, Utility Boxes, etc.
- Tunnels, Dams
- Also: Soil Stabilization

TYPE OF MATERIAL

WEBAC 151 is a hydrophobic water cut-off grout and soil stabilization grout based on a MDI (methylene-diphenyl-isocyanate) 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 WEBAC 15X Accelerator.

Upon contact with water WEBAC 151 reacts to a foam while expanding its volume 30 to 40 times. The cured material is semi flexible and 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 and the pressure of injection, WEBAC 151 reacts to a very dense, closed cell, semi rigid material or an open cell, more flexible product.

WEBAC 151 is extremely well suited for the filling of large cavernous spaces and cracks in stone or concrete structures as well as for cutting off gushing water of high pressure and speed. Due to the low viscosity of the material, WEBAC 151 offers superior penetration in hairline crack injection.

WEBAC 151 is a product of the WEBAC polyurethane injection resin line and to achieve best results a combination of several products may be recommended in some applications.

The product is also a non-shrink soil stabilization grout when used with very little accelerator. The moisture content of the soil must be sufficient to ensure reaction.

WEBAC 151 is approved for drinking water contact by the Hygiene-Institute (#C 594/96/st). For NSF drinking water contact approved materials please refer to WEBAC 157-2 and WEBAC Flexgel2.

PROCESSING

WEBAC 151 and the Accelerator WEBAC 15X (151/157 B) are supplied separately to allow adjustment of gel-time and to provide a long shelf life. It is mandatory to add WEBAC 15X Accelerator to ensure complete reaction as designed. A higher percentage of Accelerator added will increase reactive speed and foam volume. Recommended

mix ratios are between 5% and 10% of Accelerator added. In extreme situations, ratios may be as low as 1% or as high as 20%.

Examples: In applications of high pressure water-intrusions, the system will react aggressively on contact with water when catalyzed at 10% or more. A slightly catalyzed product at about 2% on the other hand assures good penetration results in very fine capillary crack injection and for soil stabilization purposes.

The accelerator system has been proven superior to solvent-loaded single component materials. The WEBAC system gives the applicator the choice to control gel-time and reactive properties.

Plan ahead: 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: High temperatures and high humidity - less accelerator.

Since WEBAC 151 reacts with the moisture in the structure, single component injection equipment is recommended. WEBAC 151 does not need large amounts of water to react. Simultaneous injection of water is not necessary. If the area of application seems to be completely dry, pre-injection of water is recommended.

Caution: 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 with a cleaner to avoid built up and clogging of the equipment.

MAINTENANCE OF EQUIPMENT

Remove all excess sealant and any smears. Tools and mixing equipment are best cleaned immediately after use.

Recommended: R70 Pump Flush is a solvent free, non-flammable and for shipping as non-hazardous classified cleaner, which conditions your pump and hoses. Circulate cleaner through pump for several minutes.

Xylo, Toluol, Acetone, M.E.K. and related solvents can be used for initial flushing. Solvents are hazardous, are aggressive towards plastic and rubber and might be in conflict with regulations on the jobsite. Caution! Some cleaners are combustible.

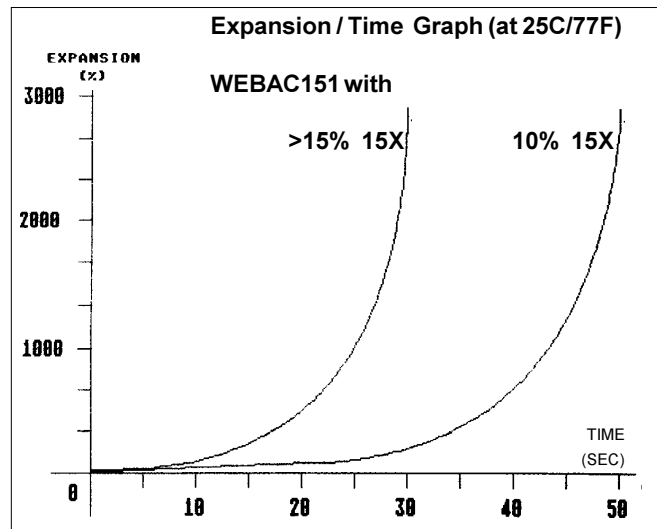
PRECAUTION

Protect your health! While working with WEBAC materials, 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 WEBAC 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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POLYURETHANE WATER CUT-OFF & SOIL STABILIZATION GROUT

TECHNICAL DATA	151	15X ACCELERATOR	
Appearance	Dark Brown	Clear	
Solids	100%	100%	ASTM D 1010
Density, g/ml	1.12	0.93	ASTM D 3800-79
Flash Point, C / F	180/356	170/388	ASTM D 93-85
Viscosity, cps	160-200	20	ASTM D 2196
Mixing Ratio by Volume (2%-10% accelerator)	50-10 parts	1 part	
Solubility in Water	not		
Packaging	1 Gal 5 Gal 55 Gal	0.1 Gal 0.5 Gal	
Storage	Good storage stability for unopened containers at 15 - 30 C 58 - 85 F in dry, sun free indoors environment 3 years shelf life.		
Accelerator Ratios			
Induction Time, 20C/68F	30 sec (10%)		
Gel time, 20C/68F	70 sec (10%)		
Induction Time, 20C/68F	15 sec (>15%)		
Gel time, 20C/68F	50 sec (>15%)		
Cured Product			
Max. Expansion, %	3000-4000		
Elongation, %	10-20 ASTM D 638		
Tensile Strength	65 psi ASTM D 638		
Shear Strength	>15 psi ASTM C 273		
Unconfined Compressive Strength (Sand filled)	1550 psi		
Corrosiveness	Non-Corrosive		
Appearance	Gold-Yellow		
Toxicity	Polyurethane Foam Essentially Non-Toxic in Cured Form MDI Based, Drinking Water Approved		
Resistance to Chemicals	Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms		
Drinking Water Contact Approval	Hygiene-Institute #C 594/96/st, Germany		



PRODUCT WARRANTY: WEBAC AMERICA CORP. PRODUCTS ARE WARRANTED UNDER THE FOLLOWING POLICY:
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