

AV-310 Hydro Sealant

Hydrophilic Foam

General Specifications

Description

AV-310 Hydro Sealant is a standard viscosity hydrophilic polyurethane injection resin designed to control water and seal moving non-structural cracks in concrete. When AV-310 comes in contact with moisture, this nonflammable resin quickly expands to form a flexible closed-cell polyurethane foam. After curing it becomes an extremely tough and adhesive foam capable of withstanding excessive temperature changes and movement. AV-310 Hydro Sealant is an extremely effective water barrier.

General Uses

- Medium to large cracks or joints in concrete
- Subways and tunnels
- Tie-backs and slurry walls

Grouting Techniques

Expanded Gasket Placement Technique (EGP)
Variable Pressure Application Technique (V-PAT)

Viscosity

650-800 CPS

Ratio

1:1 (Water to Resin)
5 Gallon Pail = 10 Gallon batch

Additives

AV-255G Grout Side Accelerator – reduces gel time

Packaging

12 oz Dual Cartridges* – 14 lb. gross weight per case, 24 cases per pallet
Container – 1 Gallon – 12 lb. gross weight ea.
Pail – 5 Gallon – 50 lb. gross weight ea., 24 pails per pallet

*12 oz. cartridges contain 10.3 oz. of material and can be used with Dual Cartridge caulk gun, (available from Avanti) sold in cases (12 ct.)

Shipping

Motor Class 55
Hazard Class: Non-Hazardous

Air Freight available for:



Cartridges



1 Gallon Container



5 Gallon Pail

Cleaning Products

AV-208 – Acetone, Technical Grade
AV-284 – Pump Wash

Technical Specifications

Description

Non-flammable, rapid curing, easily pumped resin usually injected into 1/16" to 1/4" cracks. NYCTA approved in subways and WTC.

Properties: Uncured

Solids Content: 85%	ASTM D-1259
Color: Pale Yellow	
Viscosity: 650-800 cps @ 70°F	ASTM D-5409
Flashpoint: 225°F (107.2°C)	ASTM D- 93
Density: 1.114 (9.30 lbs/gal)	ASTM D-4659 Test B
Corrosiveness: Non-corrosive	
Reaction Time: 20 seconds	

Properties: Cured Foam (1:1)

Tensile Strength: 380 psi	ASTM D-3574 Test E
Elongation: 400%	ASTM D-3574 Test E
Shrinkage: <10%	
Bonding Strength: 250-300 psi	
Toxicity: Non-toxic	

Storage

AV-310 Hydro Sealant is sensitive to moisture and moderately sensitive to high storage temperatures. Store in a dry area between 40°F and 80°F.

AV-310 Hydro Sealant should be properly removed from all application equipment due to the high risk of moisture contamination. Immediately after use, hoses and pumps can be cleaned with AV-208 Acetone or AV-284 Pump Wash. This product is packaged under dry nitrogen to extend shelf life.

MSDS

Available by request, or download at www.avantigrout.com/MSDS

Safety

Product contains Toluene Diisocyanate (TDI). Vapors may cause respiratory irritation and sensitization. Take precautions to avoid breathing of fumes and vapors. Operators should be equipped with protective clothing including rubber gloves and face shield. Ventilation should be used in confined spaces.

First Aid

Eyes: Immediately flush eyes with water for 15 minutes. Get medical attention.
Skin: Wash affected area with soap and water. Remove contaminated clothing.
Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.
Ingestion: Drink 2 glasses of water. Call a physician.

Note: Never give anything by mouth to an unconscious or convulsing person.

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