

TECHNICAL DATA SHEET

AV-330 SAFEGUARD™

HYDROPHILIC POLYURETHANE FOAM

DESCRIPTION

AV-330 Safeguard is a 100% MDI-based, single component, mid-range viscosity, moisture activated polyurethane injection resin. This high quality water-activated resin is designed for sealing active leaks in below grade structures. It is a mid-range viscosity grout that permeates well in various cracks and joints, but offers added safety in confined spaces or where there is poor ventilation. It cures to become a resilient and flexible, yet tough, closed-cell foam. Certified for use in potable water.

APPLICATION

- Areas with poor ventilation or confined spaces (utility vaults, sub-grade pump houses, lift stations, mines, tunnels, and basements)
- Medium cracks or joints in concrete structures
- Great for manholes and pipe penetrations

FEATURES AND BENEFITS

- ANSI/NSF 61 Potable Water Systems Certified
- 100% MDI-based
- Mid-range viscosity penetrates well
- Expands 400% – 600%
- Solvent-free system and non-corrosive
- Forms a resilient, flexible foam with superb adhesive properties

GROUTING TECHNIQUES

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

HOW IT WORKS

AV-330 Safeguard can be applied via two techniques: EGP or V-PAT. The resin reacts to moisture to form a resilient, flexible seal accomplished by three mechanisms: the resin seeks out water in the space and *adheres* to the surface, then begins to expand forming a tight *compressive* seal while the network of compressed grout material within all the cracks forms a *mechanical* lock.

RATIOS

Preferred ratio is 1:1 (water to resin), however no pre-mixing is required. Pumped as a single component.

PACKAGING

Product packaged by weight based on specific gravity.

Drum	Net Wt. 484 lbs. (220 kg)
Pail	Net Wt. 44 lbs. (20 kg)
Gallon	Net Wt. 8 lbs. (3.6 kg)

SHIPPING

- Motor Class 55
- Non-Hazardous
- Air freight available

PROPERTIES*

UNCURED

Appearance:	Pale yellow liquid
Viscosity:	350 – 750 cP @ 72°F (22°C)
Flash Point:	>200°F (>93°C)
Specific Gravity:	1.08 @ 72°F (22°C) ± 3%
Density:	9.01 lb./gal ± 3% (1.08 kg/L ± 3%)

CURED

Appearance:	Milky colored flexible foam	
Tensile Strength:	350-400 psi	ASTM D-3574 Test E
Elongation:	300-400%	ASTM D-3574 Test E

*Laboratory Results

PERFORMANCE

Flush equipment with **AV-208** before and after use to remove moisture and clean equipment. Performance will be influenced by site conditions. If site temperatures are low, heat the product to recommended operating temperatures of 60°F – 90°F (16°C – 32°C). Do not use open flame as a heat source. At temperatures of 45°F (7°C), the viscosity of the product can significantly increase, making the miscibility with the reaction water more difficult.

CLEANING PRODUCTS

- **AV-208** Technical Grade Acetone™ (CAS# 67-64-1) – removes moisture from equipment (see Performance section).
- **AV-284** Pump Wash™ (Proprietary Blend) – removes uncured resin from pump and hose, leave in pump for storage.
- **AV-222** Cleaner™ (Proprietary Blend) – removes cured resin from equipment.

STORAGE

Store in temperatures within or near 45°F – 95°F (7°C – 35°C) in a dry atmosphere. **Note:** storage of opened/partial containers at the lower range of the recommended storage temperature is not advised. The moisture in the air of the head space above a partial container might condensate and causes the grout to premature gel in the container.

SAFETY

Always use OSHA-approved personal protective equipment (PPE). Refer to the SDS for complete safety precautions. The SDS is available by request or via download at avantigrout.com.

NOTICE

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**AV-330 Safeguard is tested and certified
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NSF/ANSI 61 Drinking Water System Components
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