DESCRIPTION

Avanti’s specialized AV-315 Microfoam is a single component, moisture activated, polyurethane injection resin. This high quality resin has an extremely low viscosity and is designed for sealing active water leaks in very fine cracks or joints in below-grade structures. It cures to form a dense, resilient, and impermeable closed-cell flexible foam.

APPLICATION

- Stopping active leaks originating from fine cracks or joints in concrete
- Stop leaks in mines, tunnels, subways, and other dense formations
- For use in below-grade structures: basements, tunnels, utility vaults, etc.

FEATURES AND BENEFITS

- Low viscosity for excellent penetration
- Expands 400% – 600%
- Solvent-free and non-corrosive
- Forms a resilient, flexible foam with good adhesive properties

GROUTING TECHNIQUES

- Variable Pressure Application Technique (V-PAT)

HOW IT WORKS

AV-315 Microfoam reacts in the presence of water or 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.
- Pail = Net Wt. 44 lbs.
- Gallon = Net Wt. 8 lbs.

SHIPPING

- Motor class 55
- Non-hazardous
- Air freight available

CLEANING PRODUCTS

- AV-208 – Acetone, Technical Grade (CAS# 67-64-1) – removes moisture from equipment
- AV-284 – Pump Wash (Proprietary Blend) – removes uncured resin from pump and hose
- 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.

PROPERTIES*

UNCURED

Appearance: Pale yellow resin
Viscosity: 50-200 cP @ 77°F (25°C) ASTM D-4889
Flash Point: >200°F (>93°C)
Specific Gravity: 1.03 @ 72°F (22°C) ± 3%
Density: 1,030 kg/m³ ± 3%
Specific Weight: 64.3 lb./ft³ (8.6 lb./gal) ± 3%

CURED

Appearance: Milky colored, dense, flexible foam
Tensile Strength: 100 psi ASTM D-3574
Elongation: 250% ASTM D-3574
Toxicity: Non-toxic

*Laboratory Results
**Cured properties vary depending on application and field conditions.

PERFORMANCE

Flush equipment with AV-208 before and after use to remove moisture and clean equipment. For best results, use between 45°F – 95°F (7°C – 35°C). Performance will be influenced by site conditions. If site temperatures are low, use a heat source to warm to ~72°F (22°C) and apply. Do not use open flame as a heat source.

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 www.AvantiGrout.com.

NOTICE

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AV-315 Microfoam is tested and certified by WQA against NSF/ANSI 61 Drinking Water System Components
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