

TECHNICAL DATA SHEET

AV-202® MULTIGROUT

HYDROPHILIC POLYURETHANE GROUT

DESCRIPTION

AV-202® Multigrout is a single component, moisture-activated MDI/TDI blended polyurethane injection resin designed for sealing active water leaks in large cracks or joints in concrete structures. **AV-202** reacts with moisture and is versatile in that it cures tough and impermeable with superb adhesive qualities at a 1:1 water to resin ratio, or gel at a 10:1 water to resin ratio.

APPLICATION

- Large cracks or joints in concrete, or used in conjunction with **AV-215 Resin Rod™** or **AV-219 Fibrotite™** (Oakum)
- Designed for applications where high-volume water flow is an active and/or potential problem and a high viscosity chemistry is required
- Used successfully in manhole sealing and pipe penetrations
- Excellent choice for moving cracks and joints

FEATURES AND BENEFITS

- **NSF/ANSI/CAN 61 Drinking Water Systems Component Certified**
- 100% solids
- Free rise expands 400% – 600%
- Solvent-free and non-corrosive
- Cures flexible with superb adhesive properties
- Can accept up to 10X its volume in water
- May be used in underwater applications

GROUTING TECHNIQUES

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

HOW IT WORKS

AV-202 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 and is effective at ratios up to 10:1 with water.

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)
Cartridge	~10.114 fl. oz. (~ 300 ml)

SHIPPING

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

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 hose
- **AV-222** Cleaner™ (Proprietary Blend) – removes cured resin from equipment

PROPERTIES*

UNCURED

Appearance:	Brown resin
Viscosity:	3,200 – 6,000 cP @ 77°F (25°C)
Flash Point:	253.4°F (123°C)
Specific Gravity:	1.090 @ 72°F (22°C) ± 3%
Density:	9.09 lbs. per gallon ± 3% (1.090 kg/L ± 3%)

CURED

Appearance:	Milky colored, flexible
Tensile Strength:	TBD
Elongation:	TBD

*Laboratory Results

PERFORMANCE

Flush equipment with **AV-208** before and after use to remove moisture and clean equipment. For best results, use between 60°F – 90°F (16°C – 32°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.

At temperatures of 45°F (7°C), the viscosity of the product can significantly increase, making the miscibility with the reaction water more difficult.

STORAGE

Store in temperatures within or near 45°F – 95°F (7°C – 35°C) in a dry atmosphere. Keep container tightly closed when not in use. Packaged under dry nitrogen to keep moisture out and extend shelf life.

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-202® Multigrout is tested and certified by WQA against NSF/ANSI/CAN 61 Drinking Water System Components

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