

## TECHNICAL DATA SHEET

# AV-202<sup>®</sup> MULTIGROUT

## HYDROPHILIC POLYURETHANE FOAM

### 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, it can absorb up to 12 times its volume in water creating a tough, impermeable foam or gel with superb adhesive qualities. Certified for use in potable water.

### APPLICATION

- Large cracks or joints in concrete, or used in conjunction with **AV-215 Resin Rod™** or **AV-219 Fibrotite™** (oakum) systems
- Designed for applications where high volume water flow is an active 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

- ANSI/NSF 61 Drinking Water Systems Component – UL and WQA Certified
- 100% solids
- Expands 400% – 600%
- Solvent-free and non-corrosive
- Forms a resilient, flexible foam with superb adhesive properties
- Can accept up to 12X 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 12:1 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. / Volume ~ 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 foam
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](http://avantigrout.com).

### NOTICE

The data, information and statements contained herein are believed to be reliable, but are not construed as a warranty or representation for which Avanti International assumes any legal responsibility. Since field conditions vary widely, users must undertake sufficient verification and testing to determine the suitability of any product or process mentioned in this or any other written material from Avanti for their own particular use. **NO WARRANTY OF SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE.** In no case shall Avanti International be liable for consequential, special, or indirect damages resulting from the use or handling of this product.



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