

TECHNICAL DATA SHEET

AV-260 FUSION GROUT™

HYDROPHOBIC POLYURETHANE FOAM

DESCRIPTION

Injected as a single component, catalyzed **AV-260** Fusion Grout is a moisture activated MDI-based polyurethane resin. The chemical reaction is catalyzed by using **AV-261** Fusion AC™ and uses moisture as an initiator. Like other hydrophobics, **AV-260** Fusion Grout withstands wet/dry cycles and reacts with moisture. **AV-260** forms a resilient, impermeable *flexible* foam. This high quality resin is designed for sealing active and potential water leaks in various cracks, and annular spaces where flexibility is needed but is susceptible to wet/dry cycles. Avanti's **AV-260** is one of the most versatile products on the market.

APPLICATION

- For use above or below grade in humid or arid atmospheres
- Fills various cracks and pipe penetrations
- Stops leaks in concrete structures
- Designed for tunnels, mines, dams, reservoirs, block walls and structures that may shift

FEATURES AND BENEFITS

- Expands 1500% – 2500%
- Solvent-free system
- Controllable reaction time by adjusting **AV-261** Fusion AC volume
- Withstands wet/dry cycles
- Unique hydrophobic that cures into a flexible, closed-cell foam

GROUTING TECHNIQUES

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

HOW IT WORKS

AV-260 is a moisture-activated reaction. When injected into a concrete structure, the low viscosity resin will react with moisture and begin to expand. The final product is a very dense, closed cell foam impermeable to water yet flexible in nature.

ADDITIVES

- **AV-261** Fusion AC – catalyst, 32 oz. (0.95 L) container

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

CLEANING PRODUCTS

- **AV-208** Technical Grade Acetone™ (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

PROPERTIES*

AV-260 – UNCURED

Appearance:	Brown liquid
Viscosity:	300 – 500 cP @ 72°F (22°C)
Flash Point:	>200° F (93.3°C)
Specific Gravity:	1.075 @ 72°F (22°C) ± 3%
Density:	9.0 lb./gal ± 3% 1,075 kg/m ³ ± 3%

AV-260 – CURED

Appearance:	Cream-colored flexible foam
Tensile Strength:	TBD
Toxicity:	Non-toxic

AV-261 Fusion AC

Appearance:	Light brown liquid
Viscosity:	15 – 18 cP @ 68°F (20°C)
Flash Point:	>200° F (93.3°C)
Specific Gravity:	0.921 @ 68°F (20°C) ±3%

*Laboratory Results

MIX PROCEDURE

Typically, one container of **AV-261** Fusion AC is used per 5-gallon container of **AV-260** Fusion Grout. Depending on the desired reaction time, **AV-261** may be doubled. Mix thoroughly, but slowly, to avoid creating bubbles in the solution. Perform the standard cup test with site water to determine the desired reaction time.

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) and/or increase catalyst amount by 1% – 2%. Do not exceed more than 64 oz. (1 L) of **AV-261** Fusion AC per 5-gallon container of the **AV-260** Fusion Grout resin. Do not use open flame as a heat source. Excess amounts of **AV-261** may adversely affect performance. Because catalyzed resin will react to moisture from the air, use product soon after mixing for best results.

STORAGE

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

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

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.