



TECHNICAL DATA SHEET

AV-290 FAST SET™

HYDROPHOBIC POLYURETHANE FOAM

DESCRIPTION

AV-290 is a mid-range viscosity, dual component, hydrophobic MDI-based polyurethane resin designed to fill large voids on the exterior of below grade structures where high water flow is present. Expanding up to 2,600%, the fast-setting resin cures to form a rigid, impermeable closed-cell foam that can withstand wet/dry cycles.

APPLICATION

- Fill large voids below-grade
- Stops high volume leaks

FEATURES AND BENEFITS

- Reacts within seconds
- Expands 1,500% – 2,600%
- Cures quickly to a rigid foam
- Withstands wet/dry cycles
- Solvent-free
- Non-toxic

GROUTING TECHNIQUES

- Probe Grouting
- Curtain Grouting
- Pressure Injection

HOW IT WORKS

AV-290 is a dual-component hydrophobic resin that reacts within seconds to produce a rigid, impermeable closed cell foam nearly 2600% the initial liquid volume. The two components of **AV-290** are mixed via static mixer at the point of injection and quickly produce a very rigid foam.

RATIO

1:1 (Part A to Part B)

PACKAGING

	Part A	Part B
Pail	Net Wt. 47 lbs. (21.3 kg)	Net Wt. 39 lbs. (17.6 kg)
Dual Chamber Cartridge	Volume 126 ml	Volume 126 ml
Dual Cartridge	Volume 325 ml	Volume 325 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
- **AV-284** Pump Wash™ (Proprietary Blend) – removes uncured resin from pump and hose
- **AV-222** Cleaner™ (Proprietary Blend) – removes cured resin from equipment

PROPERTIES*

UNCURED (Part A)

Appearance: Amber liquid
 Viscosity: 200 cP @ 72°F (22°C) ±10% ASTM D-4889
 Flash Point: >200°F (>93°C)
 Specific Gravity: 1.25 @ 72°F (22°C) ± 3%
 Density: 10.43 lbs./gal (1,250 kg/m³) ± 3%

UNCURED (Part B)

Appearance: Pale Yellow liquid
 Viscosity: 600 cP @ 72°F (22°C) ±10%
 Flash Point: >200°F (>93°C)
 Specific Gravity: 1.06 @ 72°F (22°C) ± 3%
 Density: 8.86 lbs./gal (1,060 kg/m³) ± 3%

CURED

Density: 1.5 lbs./ft³ (free rise)
 2.5 lbs./ft³ (confined)
 Appearance: Pale yellow very rigid foam
 Cure Time: 40 seconds
 Toxicity: Non-toxic

*Laboratory Results

MIX PROCEDURE

Avanti's static mixers are recommended for use when using **AV-290** via cartridge or pump system. Do not mix components in any unapproved container.

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.

STORAGE

Store in temperatures within or near 45°F – 95°F (7°C – 35°C) in a dry atmosphere.

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.