



**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**

	<b>Part A</b>	<b>Part B</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/m<sup>3</sup>) ± 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/m<sup>3</sup>) ± 3%

**CURED**

Density: 1.5 lbs./ft<sup>3</sup> (free rise)  
 2.5 lbs./ft<sup>3</sup> (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](http://avantigrout.com).

**NOTICE**

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