

TECHNICAL DATA SHEET

AV-290 FAST SET™

HYDROPHOBIC POLYURETHANE GROUT

DESCRIPTION

AV-290 Fast Set™ 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. Free rise expanding up to 2,600%, the fast-setting resin cures rigid, impermeable and closed-cell and can withstand wet/dry cycles.

APPLICATION

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

FEATURES AND BENEFITS

- Reacts within seconds
- Free rise expands 1,500% – 2,600%
- Cures quick and rigid
- 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 and cures rigid, impermeable and closed-cell with nearly 2,600% the initial liquid volume. The two components of **AV-290** (Part A and Part B) are mixed via static mixer at the point of injection and quickly produce a very rigid grout.

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/m ³) ± 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 ³) ± 3%

CURED

Density:	1.5 lbs./ft ³ (free rise) 2.5 lbs./ft ³ (confined)
Appearance:	Pale yellow, very rigid
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

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