

TECHNICAL DATA SHEET

AV-170 FLEXGEL™

CHEMICALLY ACTIVATED GEL

DESCRIPTION

AV-170 FlexGel™ is a non-toxic, ultra-low viscosity chemically activated gel. **AV-170's** ultra-low viscosity can penetrate hairline cracks, pores, and honeycombed concrete. **AV-170** cures within a controllable time frame from 15 seconds to ±8 minutes. Once it cures, it creates an effective, adhesive, elastic acrylic gel.

APPLICATION

- Stops water infiltration into underground structures by stabilizing external soils (curtain grouting), sealing hairline cracks and honeycombed concrete.
- Chemical injection grout for injectable water stops. Reinjection of failed polyurethane grout. Sealing moving joints.

FEATURES AND BENEFITS

- High solids content grout
- Controllable reaction times from seconds to minutes
- Will not undergo syneresis
- No suspended solids
- Greater longevity compared to silicates

REQUIRED PRODUCTS

- AV-101® Catalyst T+ (Triethanolamine)
- AV-103® Catalyst SP (Sodium Persulfate)

HOW IT WORKS

AV-170 is injected using a stainless steel, dual-component pump from two containers (see Mix Procedure). Injecting a 1:1 ratio into the soil or external substrate will produce a strong, impermeable gel obtained via a copolymerization reaction.

OPTIONAL ADDITIVES

- **AV-105** Gel Guard™ – reduces freezing point (add equal amounts to both tanks)
- **AV-257** Icoset™ – increase solids content of cured gel
- **Tracer Dyes** – used extensively for tracking grout flow

PACKAGING

Product is packaged by weight based on specific gravity.

Net Wt.

Tote	2,545 lbs. (1,159 kg)
Drum	506 lbs. (230 kg)
Pail	46 lbs. (21 kg)

SHIPPING

- Motor Class 55
- Non-Hazardous
- Air freight available

PROPERTIES*

UNCURED MIXED

Appearance:	Clear Liquid
Viscosity:	15 – 20 cP @ 77°F (25°C) liquid resin
pH:	5.5 – 6.0
Flash Point:	223°F (106°C) CC
Specific Gravity:	~ 1.0735

CURED

Appearance:	Elastic white tinted gel mass
Toxicity:	Non-toxic
Elongation:	300+%
14-Day Water Absorption:	50%

*Laboratory Results

TYPICAL MIX PROCEDURE (See Mixing Guidelines)

Grout Tank (Tank A): Add one pail of **AV-170** and add 13 fl. oz. (0.37 L) of **AV-101®** Catalyst T+ and mix well.

Catalyst Tank (Tank B): Add 4 gallons (15.1 L) of water, add 0.9 lbs. (0.4 kg) of **AV-103®** Catalyst SP, and fill with water up to 5-gallon mark and mix well.

This mix makes a 10-gallon (38 L) batch at ~20% grout concentration.

Note: Ingredients are only compatible with stainless steel or plastic. For Mixing Guidelines visit avantigrout.com.

PERFORMANCE

Performance will be influenced by site conditions. If site temperatures are low, heat the product to recommended operating temperatures of 40°F – 100°F (4°C – 38°C). Decreasing pH may extend cure time. High minerals/metals content may adversely affect gel time.

STORAGE

Store in temperatures within or near 45°F – 95°F (7°C – 35°C). Keep out of sunlight. **Caution:** Keep products stored separately. **AV-101** Catalyst T+ will react violently when it encounters **AV-103** Catalyst SP.

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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