

TECHNICAL DATA SHEET

AV-150 ACRYLATE GEL™

CHEMICALLY ACTIVATED GEL

DESCRIPTION

AV-150 Acrylate Gel™ is a non-toxic, ultra-low viscosity chemically activated gel. **AV-150** has the same viscosity as water which allows it to permeate anywhere water can travel and cures within a controllable time frame from 20 seconds to ±5 minutes. Once it cures, it creates an effective, long-lasting water barrier while providing superb soil stabilization.

APPLICATION

- Stops water infiltration into manholes, sanitary and storm sewer mainlines, joints, laterals, tunnels, mines, and various other geo-technical applications and underground structures by stabilizing external substrate.
- Ground modification/slope stability for prevention of landslides, erosion, or any place where site conditions or project requirements dictate modification of the existing soil properties.

FEATURES AND BENEFITS

- High solids content grout
- Can be injected through remote packer equipment
- Controllable reaction times from seconds to minutes
- Will not undergo syneresis
- No suspended solids
- Greater longevity compared to silicates

HOW IT WORKS

AV-150 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)
- **KFe** (Potassium Ferricyanide) – extends gel time (add to grout tank; KFe will precipitate out of solution in less than 1 hr, tank MUST be under continuous mixing or erratic gel times are expected)
- **Dyes** – used extensively for tracking grout flow

PACKAGING

Product packaged by weight based on specific gravity.

	Net Wt.
Tote	2,420 lbs. (1,098kg)
Drum	484 lbs. (220 kg)
Pail	44 lbs. (20 kg)

SHIPPING

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

PROPERTIES*

UNCURED

Appearance:	Clear Liquid
Viscosity:	15 – 20 cP @ 77°F (25°C) liquid resin
pH:	6.5-7.5
Flash Point:	223°F (106°C) CC
Specific Gravity:	~ 1.0735

CURED

Appearance:	White tinted gel mass
Toxicity:	Non-toxic
Elongation:	70%
Swelling:	25%

*Laboratory Results

TYPICAL MIX PROCEDURE

Comp A: Add 5% by weight (measured on the total quantity of A+B) of **AV-101** Catalyst T+ to the **AV-150** component.

Comp B: Add 5% by weight (measured on the total quantity of A+B) of **AV-102** Catalyst AP or **AV-103** Catalyst SP, and complete with water to equal quantity of **AV-150**.

Pump at a 1:1 by volume

Note: Ingredients are only compatible with stainless steel or plastic.

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 each ingredient stored separately. **AV-101** will react violently when it comes in contact with **AV-102** Catalyst AP or **AV-103** Catalyst SP.

SAFETY

Always use OSHA-approved personal protective equipment (PPE). Refer to the SDS for complete safety precautions. The SDS, mixing instructions, and Technical Manual are available by request or via download at avantigrout.com.

NOTICE

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