



**TECHNICAL DATA SHEET**

**AV-522 CRACK SEALING PASTE™**

**HIGH-BOND STRENGTH EPOXY ANCHORING GEL**

**DESCRIPTION**

**AV-522 Crack Sealing Paste** is a two component, non-sag structural epoxy designed to offer exceptional mechanical strength in anchoring/bonding applications. Due to its high bond strength to concrete, it is ideal to use for anchoring threaded rod or rebar dowels. The consistency of Crack Sealing Paste is good for capping (sealing) for crack injection or general surface repairs. **AV-522** is 100% solids, VOC free and Butyl Glycidyl Ether (BGE)\* free.

**AV-522** meets or exceeds requirements of ASTM C 881 (Types I, II, IV, & V Grade 3, Class B & C).

**APPLICATION**

- Anchoring threaded rods or rebar dowels
- Capping/ sealing for crack injection

**FEATURES AND BENEFITS**

- Non-sag, non-shrink
- User friendly mix ratio 1:1 by volume
- Solvent free
- Butyl Glycidyl Ether (BGE)\*free
- High Strength/Modulus
- Easy to apply paste
- Excellent adhesion
- ASTM C 881 compliant

**HOW IT WORKS**

**AV-522** Crack Sealing Paste has a user friendly mixing ratio of 1:1 by volume. Use **AV-522** to surface seal (cap) crack before using Avanti's **AV-502** Injectable Epoxy for manual or automatic injection.

**PACKAGING**

2-Gallon Kit

Resin	1.0 gallon
Hardener	1.0 gallon

**SHIPPING**

- Motor Class 55
- Resin: Not Regulated
- Hardener: UN3259, Amines, solid, corrosive, n.o.s. (Aliphatic amine, Diethylenetriamine)
- Air freight available

**CLEANING PRODUCTS**

- **AV-544** Epoxy Tool Cleaner™ (Proprietary Blend) – removes uncured and cured resin from equipment
- **AV-208** Technical Grade Acetone™ (CAS# 67-64-1) – removes uncured resin from equipment
- **AV-222** Cleaner™ (Proprietary Blend) – removes cured resin from equipment

**STORAGE**

Store between 60°F – 80°F (15°C – 27°C) in a dry atmosphere. Keep containers closed. Temperatures below 60°F (16°C) may cause partial crystallization of the resin. If crystallization has occurred, heat the resin in its original container placing it into another container with hot water.

**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).

\*BGE (Butyl Glycidyl Ether). The EPA (SARA Title III, section 312) lists BGE as "Toxic" (per ANSI Z129.1) by skin absorption and an immediate health hazard.

**PROPERTIES\***

**AV-522 UNCURED Resin and Hardener**

Appearance:	Gray
Mixed Viscosity:	Paste
Flash Point:	Resin: ≥302°F (≥150°C) Hardener: >200 °F (>93 °C) CC
Solids:	100%
Specific Gravity (mixed):	1.43 @ 72°F (22°C)
Density:	11.93 lbs./gal 1,430 kg/m <sup>3</sup>
Gel Time (100 g)	9 minutes

**AV-522 CURED**

Tensile Strength:	30.3 MPa (4,400 psi) – ASTM D638
Elongation @ break:	1.0% - ASTM D638
Compressive Strength:	86.9 MPa (12,600 psi) – ASTM D695
Compressive Modulus:	2,461 MPa (356,850 psi) – ASTM D695
Bond Strength 2 day	16.8 MPa (2,430 psi) – ASTM C882
Bond Strength 14 day	18.8 MPa (2,730 psi) - ASTM C882
Hardness Shore D	88 – ASTM D2240
Heat Deflection Temp.	55°C (131°F) – ASTM D648
Water Absorption (7 day)	0.2% - ASTM D570
Linear Shrinkage	<0.005% - ASTM D2566

\*Laboratory Results

**SURFACE PREPARATION**

To achieve excellent adhesion, the substrate should be free of all loose and foreign material and should be clean. Oils, grease, waxes or other contaminants must be removed prior to application.

**MIXING PROCEDURE**

For best performance, the ideal application temperature range is between 70-80°F (21-27°C) but can be extended between 55-90°F (13-32°C). Mix 1 parts A (resin) to 1 part B (hardener) for 3 minutes using a Jiffy Mixer and a slow speed drill. Mix at slow speed (less than 500 rpm) to avoid air entrainment. DO NOT mix more material than can be used within the stated working time. REMEMBER - you will have less working time at higher temperatures.

**AV-522** Crack Sealing Paste may be removed from tools with Avanti's **AV-544** Epoxy Tool Cleaner or warm soapy water before they are fully cured.

**NOTICE**

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