



# 301 EPOXY PASTE

## NON SAG, FAST SETTING EPOXY GEL FOR CONCRETE REPAIRS

**PRODUCT DESCRIPTION:** *Specco 301 Epoxy Paste* is a two component, 100% solids, moisture insensitive, non-sag formulation. *Specco 301 Epoxy Paste* is a high modulus adhesive binder which develops high early strength and can be used for application temperatures down to 32° F. Use *Specco 301 Epoxy Paste* to seal cracks and secure injection ports prior to pressure grouting, for vertical and overhead repairs of structural concrete, and for grouting dowels, bolts and pins when high early strength is needed. *Specco 301 Epoxy Paste* can be mixed with aggregate to yield a high-strength epoxy mortar.

### BENEFITS:

- Can be used for lower temperature applications down to 32°F
- Excellent adhesion to concrete, masonry, metal and wood
- Very rapid set
- High early strength
- Allows earlier crack injection times when used as a surface paste

**LEED CREDIT CONSIDERATIONS: MR Credits 5.2:** Regional materials-Greater than 20% extracted, processed and manufactured regionally at production location: Kankakee, IL. 60901. 90%. Content- Harvested within 500 miles

### COMPOSITION:

Part A:	Modified, gelled epoxy resin
Part B:	Modified, gelled amine cure

PHYSICAL DATA:	PROPERTIES @ 77F (25 ° C):
Color Part A:	Pigmented White
Part B:	Pigmented Gray
Mixing ratio (A&B):	1:1 by volume
Viscosity(mixed):	Gel
Pot life:	5 - 7 minutes
Tack free time @ 40 degrees F:	75 minutes
Tack free time @ 73 degrees F:	25 minutes
Tensile strength 24 hours: ASTM D-638	3,300 psi
Tensile elongation @ break: ASTM D-638	0.2%
Flexural strength 24 hours: ASTM D-790	5,000 psi
Shear strength 24 hours: ASTM D-732	2,500 psi
Bond strength 48 hours: ASTM C-882	3,000 psi
Compressive strength @ 40F: ASTM D-695	
2 hours:	1,800 psi
4 hours:	3,500 psi
24 hours:	7,400 psi
7 days:	8,300 psi
Compressive strength @ 73F: ASTM D-695	
2 hours:	6,700 psi
4 hours:	7,800 psi
24 hours:	8,600 psi
7 days:	9,200 psi

**TECHNICAL DATA:** Formulated to meet **ASTM C-881 specifications for Type I, IV, Classes A, B, C, D, E, F Grade 3.**

**SURFACE PREPARATION:** Surfaces must be structurally sound, clean, dry and free of dust, dirt, oils, salts, laitance, and other contaminants. Remove defective concrete, cavities, cracks, voids and other defects by routing to sound material.





Sandblast or acid etch surfaces to provide a clean, absorptive substrate. Sandblast steel to a minimum gray metal finish and protect the steel from moisture following sandblasting.

**MIXING: CARTRIDGE UNITS:** Remove the two small end cap clips located directly under threads, attach a static mixing nozzle (1/2 inch minimum diameter required), then thread in place with the retain nut until tight. Once the discharge process has begun, the material must be applied continuously within 5-6 minutes or the epoxy can set in the nozzle.

**GALLON UNITS:** Combine one part of Part A (resin) to one part of Part B (cure) in a clean container and mix thoroughly using a slow speed motor and paddle mixer. Scrape the sides and bottom of the container during mixing. Do not aerate the mix. Increased material volume and temperature will shorten pot life. For mortar, mix one gallon by loose volume of #20 mesh silica or quartz sand to one gallon of mixed 301 Fast Set Epoxy Gel Paste.

**DIRECTIONS FOR USE:** To use **301 Epoxy Paste** as a structural adhesive, spread mixed epoxy paste with a brush, squeegee or trowel in a uniform thin layer over the cleaned concrete or metal surface. Secure the bonded unit firmly into place until the adhesive has cured. Glue line should not exceed 1/8".

- To use **301 Epoxy Paste** for sealing cracks and anchoring injection ports when injection grouting, spread a band of mixed epoxy paste approximately 1/4" thick over the crack to be injected and around all injection ports. Allow sufficient time for the **301 Epoxy Paste** to set before pressure injecting with **Specco 101LV Epoxy**.
- To use **301 Epoxy Paste** to anchor dowels, bolts and pins, the annular space around the bolt should not exceed 1/8". The depth of embedment is typically 10-15 times the bolt diameter.
- To use **301 Epoxy Paste** for vertical and overhead patching, first prime the surfaces with mixed neat epoxy paste, then trowel the mixed mortar to the primed surface while the primer is still tacky.

**COVERAGE:** Approximately **100 square feet per gallon**.

**CAUTIONS:** Maintain unmixed material temperatures above 50° F for best results. Mix 1 part resin (component A) to 1 part cure (component B) until uniform gray color is obtained. Make sure there are no color streaks after mixing before applying. Do not apply **301 Epoxy Paste** in temperatures below 32° F or to frozen, frost filled or damp surfaces. Keep away from heat, sparks and open flame.

**GHS HAZARD RATINGS: WARNING**



**Irritant: Respiratory Tract Irritation.**



**Health Hazard: Reproductive Toxicity**

**WARNINGS: HEALTH HAZARD, IRRITANT:** Avoid ingestion, skin and eye contact and inhalation of the vapors. Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. **301 Epoxy Paste** contains an alkaline amine and releases an amine odor. Use with adequate ventilation. Use with OSHA/NIOSH approved air (vapor) respirator. Keep away from food and drink. Do not take internally. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. Refer to product S.D.S. (SAFETY DATA SHEET) for FIRST AID INFORMATION, or any related health and safety information before using this product. For medical emergencies only, call INFOTRAC @ 800-535-5053.**

**H.M.I.S. CODES:**

Component A: HEALTH = 2, FLAMMABILITY = 1, REACTIVITY = 0, P. PROTECTION = G.

Component B: HEALTH = 3, FLAMMABILITY = 1, REACTIVITY = 0, P. PROTECTION = G

**SHIPPING NAMES:**

Component A: Epoxy Resin / CAS# 025085-99-8 / Not currently regulated by D.O.T.

Component B: Modified Polyamine Curing Agent / CAS# NA-Mixture Trade Secret / Not currently regulated by D.O.T.



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**SHIPPING CLASS:** ITEM 33880, SUB 2, Freight Class 65- EPOXY BONDING AGENT

**PACKAGING:** 20 oz. dual cartridge (12/ case) or 1 gallon units (1 /case)

**STORAGE:** 40° to 90° F

**SHELF LIFE:** 1 year properly stored

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