

301 FAST SET EPOXY GEL PASTE NON SAG EPOXY SURFACE PASTE

PRODUCT DESCRIPTION: 301 Fast Set Epoxy Gel Paste is a two component, 100% solids, moisture insensitive, non-sag formulation. 301 Fast Set Epoxy Gel Paste is a high modulus adhesive binder which develops high early strength and can be used for application temperatures down to 32° F. Use 301 Fast Set Epoxy Gel 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. 301 Fast Set Epoxy Gel 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

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 1, Classes A, B, C, Grade 3.

SURFACE PREPARATION: Surfaces must be structurally sound, clean, dry and free of dust, dirt, oils, salts, laitance, and other contaminates. 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 Fast Set Epoxy Gel 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 Fast Set Epoxy Gel 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 Fast Set Epoxy Gel Paste to set before pressure injecting with 101LV
- To use 301 Fast Set Epoxy Gel 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 Fast Set Epoxy Gel 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 Fast Set Epoxy Gel Paste in temperatures below 32° F or to frozen, frost filled or damp surfaces. Keep away from heat, sparks and open flame.

WARNINGS: Avoid contact with skin and eyes. Wear protective clothing and safety glasses during mixing and application. Keep away from heat, sparks, and open flame. 301 Fast Set Epoxy Gel Paste contains an alkaline amine and releases an amine odor. Use with adequate ventilation. Avoid breathing vapors and prolonged contact with the skin. Keep away from food and drink. Do not take internally. Refer to product M.S.D.S. (Material Safety Data Sheet) for further health and safety information. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

H.M.I.S. CODES:

Component A: HEALTH = 2, FLAMMABILITY = 1, REACTIVITY = 1, PROTECTION = E

Component B: HEALTH = 3, FLAMMABILITY = 1, REACTIVITY = 0, PROTECTION = E

SHIPPING NAMES:

Component A: Modified Bisphenol A Resin/ CAS# 25068-36-6/Not currently regulated by D.O.T.

Component B: Modified Polyamine Curing Agent/ CAS# N/A (Trade Secret)/ Corrosive Liquid, N.O.S. UN 1760

SHIPPING CLASS: Item 155250, SUB 2, LTL 65 – Epoxy Resin (Gel Type) Binder

PACKAGING: 20 oz dual cartridge, 2 gallon units

STORAGE: 40° to 90° F **SHELF LIFE:** 1 year properly stored

LIMITED WARRANTY: This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product.

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