



Epoxy-Tie Adhesive



Epoxy-Tie® ET is a two-component, 100% solid epoxy-based system for use as a high strength, non-shrink anchor grouting material.

USES:

- Anchor grouting and rebar dowelling.
- Bonding hardened concrete to hardened concrete.
- Pressure injection of wide width cracks 3/16" - 3/4".
- As a pick proof sealant around doors, windows and fixtures.
- Paste-over for injection.

CODES: ICBO 4945; SBCCI 94145; City of L.A. RR25185, RR25120, Multiple DOT Listings. The Tables list values based upon results from the most recent testing and may not reflect those in current and City of L.A. reports. Where these code jurisdictions apply, consult the current reports for applicable load values.

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General Information

Epoxy-Tie® ET is a two-component, 100% solid epoxy-based system for use as a high strength, non-shrink anchor grouting material. Resin and hardener are dispensed and mixed simultaneously through the nozzle. ET meets the ASTM C-881 specifications for Type I II, IV and V Grade 3, Classes B and C.

Technical Data

PROPERTY	TEST METHOD	RESULTS
Consistency (77° F)	ASTM C 881	Non-Sag/Thixotropic Paste
Heat Deflection	ASTM D 684	168°F (76° C)
Bond Strength	ASTM C 882	2030 psi (2 days) 4240 psi (14 days)
Water Absorption	ASTM D 570	0.19% (24 hours)
Compressive Yield Strength	ASTM D 695	9,174 psi (24 hours) 13,390 psi (7 days)
Compressive Modulus	ASTM D 695	658,200 psi (7 days)
Gel Time (77° F)	ASTM C 881	10 min – 60 gram mass 30 min – Thin film

CHEMICAL RESISTANCE: Very good to excellent against distilled water, inorganic acids and alkalis good against organic acids and alkalis, and many organic solvents. Poor against Ketones.

ET In-Service Temperature Sensitivity		
Concrete Temperature		Percent Allowable Load
°F	°C	
32	0	98%
70	21	100%
100	38	98%
125	52	95%
140	60	79%
170	77	61%

1. Percent allowable load may be linearly interpolated for intermediate concrete temperatures.
2. °C=(°F-32)/1.8.

Set & Cure Schedule				
Concrete Temperature	40°F (4°C)	60°F (16°C)	80°F (27°C)	100°F (38°C)
Set Time	18 hrs.	6 hr.	4 hrs.	4 hrs.
Cure Time	72 hrs.	24 hr.	24 hrs.	12 hrs.

SUGGESTED SPECIFICATIONS: Anchoring Adhesive shall be a two-component solid epoxy based supplied in manufacturer's standard side-by-side cartridge and dispensed through a static-mixing nozzle supplied by the manufacturer. Epoxy shall meet the minimum requirements of ASTM C-881 specific Type I, II, IV, and V, Grade 3, Class B and C and must develop a minimum 13,390 psi compressive strength after 7 day cure. Epoxy must have a heat deflection temperature of a minimum 168°F(76°C). Adhesive shall be Epoxy-Tie® ET from Simpson Strong-Tie, Dublin, CA. Anchors shall be installed per Simpson Strong-Tie's instructions for Epoxy-Tie® ET.

Product / Application Information

ET Cartridges

Model No.	Capacity ounces (cubic inches)	Cartridge Type	Carton Quantity	Dispensing Tool(s)	Required Mixing Nozzle
ET22	22 (39.7)	side-by-side	10	EDT22A or EDT22AP	EMN37 or
ET56	56 (101.1)	side-by-side	6	EDT56AP	EMN37 or

For complete information on dispensing tools, mixing nozzles, and other adhesive accessories [click here.](#)



Convenient 22 oz. size for most jobs
(Model ET22)



Large 56 oz. cartridge provides the greatest economy (Model ET56)

APPLICATION: Surfaces to receive epoxy must be clean and sound. Epoxy should not be installed in through standing water. The base material temperature must be 40° F or above at the time of installation. For best results, material should be 70° F - 80° F at the time of application. Cartridges should not be immersed in water to facilitate warming. To warm cold material, the cartridges should be stored in a warm, uniform heated area or storage container for a sufficient time to allow epoxy to warm completely. Mixed material can harden in 5-7 minutes at a temperature of 40° F or above.

SHELF LIFE: Two years from date of manufacture in unopened container.

STORAGE CONDITIONS: Store between 60° F - 80° F. To store partially used cartridges, leave hardener nozzle in place. To re-use, attach new nozzle.

COLOR: Resin – white; Hardener – black ; amine based. When properly mixed, ET adhesive will be a uniform medium gray color.

CLEAN UP: Uncured material – Wipe up with cotton cloths. If desired scrub area with abrasive, water cleaner and flush with water. If approved, solvent can be used. Cured Epoxy – Chip or grind off surface.

