

# EDOT™ General Purpose Epoxy-Tie® Anchoring Adhesive

SIMPSON

Strong-Tie  
ANCHOR SYSTEMS

EDOT™ Epoxy-Tie® adhesive is formulated to provide an economical and high-strength solution for transportation projects.\* It is a two component, high-solids epoxy-based system that is a non-shrink anchor grouting material. Resin and hardener are dispensed and mixed simultaneously through the static mixing nozzle. EDOT meets the requirements of ASTM C-881 and AASHTO M235 specifications for Type I, II, IV and V, Grade 3, Class C.

\*Visit [www.simpsonanchors.com](http://www.simpsonanchors.com) for specific state DOT approvals.

**USES:**

- Threaded rod anchoring
- Rebar doweling
- Bonding hardened concrete to hardened concrete
- Pick-proof sealant around doors, windows and fixtures
- Paste-over for crack injection

**APPLICATION:** Surfaces to receive epoxy must be clean. 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 warm, uniformly heated area or storage container for a sufficient time to allow epoxy to warm completely. Mixed material in nozzle can harden in 5-7 minutes at a temperature of 40°F or above.

**INSTALLATION:** See pages 31–32. For installations in damp holes, see page 15 for details.

**SHELF LIFE:** 24 months from date of manufacture in unopened container.

**STORAGE CONDITIONS:** For best results, store between 45°F–90°F. To store partially used cartridges, leave hardened nozzle in place. To re-use, attach new nozzle.

**COLOR:** Resin – white, hardener – brown  
When properly mixed, EDOT adhesive will be a uniform and consistent tan color.

**CLEAN UP:** Uncured material – Wipe up with cotton cloths. If desired, scrub area with abrasive, waterbased cleaner and flush with water. If approved, solvents such as ketones (MEK, acetone, etc.), lacquer thinner, or adhesive remover can be used. **DO NOT USE SOLVENTS TO CLEAN ADHESIVE FROM SKIN.** Take appropriate precautions when handling flammable solvents. Solvents may damage surfaces to which they are applied. Cured material – Chip or grind off surface.

**TEST CRITERIA:** Anchors installed with EDOT™ Epoxy-Tie® adhesive have been tested in accordance with ASTM E488, ASTM E1512 and ICC-ES's *Acceptance Criteria for Adhesive Anchors (AC58)* for the following:

- Tension and shear loading
- Long-term creep at elevated temperature
- Damp holes

PROPERTY	TEST METHOD	RESULTS
Consistency (77°F)	ASTM C-881	Non-sag/ thixotropic paste
Heat deflection	ASTM D-648	129°F (54°C)
Bond strength (moist cure)	ASTM C-882	3054 psi (2 days) 3425 psi (14 days)
Water absorption	ASTM D-570	0.04% (24 hours)
Compressive yield strength	ASTM D-695	10,053 psi (7 days)
Compressive modulus	ASTM D-695	393,000 psi (7 days)
Gel time	ASTM C-881	46 min. @ 73 °F (23°C) 32 min. @ 90 °F (32°C)

**CHEMICAL RESISTANCE:** Very good to excellent against distilled water, dilute inorganic acids and alkalis. Fair to good against organic acids and alkalis, and many organic solvents. Poor against ketones. For more detailed information visit our website or contact Simpson Strong-Tie.

**SUGGESTED SPECIFICATIONS:** Anchoring adhesives shall be a two-component high solids epoxy based system 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 C881 and AASHTO M235 specification for Type I, II, IV, and V, Grade 3, Class C, and must develop a minimum 10,000 psi compressive yield strength after 7 day cure. Epoxy must have a heat deflection temperature of a minimum 125°F (52°C). Adhesive shall be EDOT™ Epoxy-Tie® adhesive from Simpson Strong-Tie, Pleasanton, CA. Anchors shall be installed per Simpson Strong-Tie instructions for EDOT™ Epoxy-Tie® adhesive.

**ACCESSORIES:** See pages 87–92 for information on dispensing tools, mixing nozzles and other accessories.



**- IMPORTANT -  
SEE Pages 31-32  
FOR INSTALLATION  
INSTRUCTIONS**

**NEW**



EDOT56



EDOT22

## EDOT™ Package Systems

Model No.	Capacity (cubic inches)	Package Type	Carton Quantity	Dispensing Tool(s)	Mixing Nozzle
EDOT22	22 ounces (39.7)	Cartridge, Side-by-side	10	EDT22B, EDT22AP, EDT22CKT	EMN22i
EDOT56	56 ounces (101.1)	Cartridge, Side-by-side	6	EDT56AP	EMN22i or EMN50
EDOT1KT	1 gallon kit (231)	(2) 1/2 gal pails	1 kit	Metering pump	EMN37A
EDOT10KT	10 gallon kit (2,310)	(2) 5 gallon pails	1 kit	Metering pump	EMN37A
EDOT100KT	100 gallon kit (23,100)	(2) 50 gallon drums	1 kit	Metering pump	EMN37A

1. Cartridge and bulk Estimation Guides are available on pages 63–66.
2. Detailed information on dispensing tools, mixing nozzles and other adhesive accessories is available on pages 87–92.
3. Use only appropriate Simpson Strong-Tie® mixing nozzle in accordance with Simpson Strong-Tie instructions. Modification or improper use of mixing nozzle may impair epoxy performance.
4. Metering pumps offered by third-party manufacturers.

## Cure Schedule

Base Material Temperature	Cure Time	
	°F	°C
40	4	72 hrs
60	16	24 hrs
80	27	24 hrs
100	38	24 hrs

## In-Service Temperature Sensitivity

Base Material Temperature	Percent of Allowable load	
	°F	°C
40	4	100%
70	21	100%
110	43	100%
135	57	85%

## Pot Life for 1 gallon mixed

Adhesive Temperature	Pot Life time (min)	
	°F	°C
60	16	60
70	21	35
80	27	25
90	32	15
100	38	10