

# Crack-Pac® Injection Epoxy

Crack-Pac injection epoxy is designed to repair cracks in concrete ranging from 1/64" to 1/4" wide in concrete walls, floors, slabs, columns and beams. The mixed adhesive has the viscosity of a light oil and a low surface tension, allowing it to penetrate fine to medium-width cracks in dry, damp or wet conditions with excellent results. Resin is contained in the cartridge and hardener is contained in the nozzle.

## Features

- Dispenses with a standard caulking tool, no special dispensing tool needed
- Clean and easy to mix
- Seals out moisture, protecting rebar in the concrete from corrosion and flooring from moisture damage
- Chemically bonds with the concrete to restore strength
- Non-shrink material resistant to oils, salts and mild chemicals
- Freeze-thaw resistant

## Applications

- Pressure injection
- Gravity feed
- Underwater pressure injection

## Product Information

Mix Ratio/Type	8:1
Mixed Color	Amber
Cure Color	Dark purple, fading to amber over time
Crack Width	0.016"–0.25" (0.4 mm–6 mm)
Shelf Life	24 months
Storage Temperature	45°F (7°C)–90°F (32°C)
Base Material Temperature	60°F (16°C)–90°F (32°C)
Volatile Organic Compound (VOC)	6 g/L mixed
Yield	16 in. <sup>3</sup> /cartridge (0.0003 m <sup>3</sup> /cartridge)
Pot Life, Cartridge	50 minutes at 72°F (22°C) 10 minutes at 90°F (32°C)
Thin Film (20 mil)	Set to touch: 7 hr.
Set Time at 72°F, ASTM D5895	Dry through: 14 hr.
Manufactured in the US using global materials	

## Code Reports, Standards and Compliance

ASTM C881 and AASHTO M235 Type I, Grade 1, Class C

## Installation Instructions

Installation instructions are located at the following locations: pp. 210–215, product packaging or on the Crack-Pac Technical Data Sheet at [strongtie.com/rps](http://strongtie.com/rps).

## Accessories

See p. 209 for information on crack repair accessories.

## Crack-Pac Cartridge System

Model No.	Capacity (ounces)	Cartridge Type	Carton Quantity	Dispensing Tool
ETIPAC2G10	9	Single	12	CDT10S
ETIPAC2G10KT	18	Single	2 (kits)	



**Crack-Pac Injection Epoxy (ETIPAC2G10)**

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## Technical Information

### Compressive Strength

Cure Time	40°F (4°C) psi (MPa)	60°F (16°C) psi (MPa)	72°F (22°C) psi (MPa)	90°F (32°C) psi (MPa)	Test Standard
24-hour cure	—	1,900 (13.1)	4,400 (30.3)	7,500 (51.7)	ASTM D695
72-hour cure	—	8,000 (55.2)	7,800 (53.8)	9,000 (62.1)	
7-day cure	4,250 (29.3)	9,000 (62.1)	8,900 (61.4)	9,200 (63.4)	
14-day cure	7,400 (51.0)	10,000 (69.0)	9,600 (66.4)	9,400 (64.8)	
28-day cure	9,200 (63.4)	12,200 (84.1)	10,300 (71.3)	9,600 (66.4)	

Temperature Range	Class C 60°F (16°C) — 90°F (32°C)		Test Standard
Epoxy Classification	Types I; Grade 1		ASTM C881
Viscosity — mixed <sup>1</sup>	500 cP		ASTM D2556
Gel Time — mixed <sup>1</sup>	105 minutes		ASTM C881
Bond Strength, Slant Shear: Hardened to Hardened Concrete — 2-day cure Hardened to Hardened Concrete — 14-day cure	1,050 psi (7.2 MPa) <sup>2</sup> 1,500 psi (10.3 MPa) <sup>2</sup>	1,230 psi (8.5 MPa) <sup>3</sup> 1,700 psi (11.7 MPa) <sup>3</sup>	ASTM C882
Tensile Strength — 7-day cure	6,100 psi (42.0 MPa) <sup>2</sup>	6,150 psi (42.4 MPa) <sup>3</sup>	ASTM D638
Tensile Elongation at Break — 7-day cure	5.0% <sup>2</sup>	7.5% <sup>3</sup>	ASTM D638
Flexural Strength — 7-day cure	9,600 psi (66.2 MPa) <sup>2</sup>	9,200 psi (63.4 MPa) <sup>3</sup>	ASTM D790
Modulus of Elasticity in Compression — 7-day cure	307,000 psi (2,100 MPa) <sup>2</sup>	264,000 psi (1,800 MPa) <sup>3</sup>	ASTM D695
Water Absorption — 14-day cure <sup>4</sup>	0.08%		ASTM D570
Linear Coefficient of Shrinkage <sup>3</sup>	0.0014		ASTM D2566
Coefficient of Thermal Expansion <sup>3</sup>	3.46 x 10 <sup>-5</sup> in./in.°F 6.22 x 10 <sup>-5</sup> cm/cm°C		ASTM C531

1. Tested at 72°F (22°C).
2. Cured at 60°F (16°C).
3. Cured at 72°F (22°C).
4. Cured at 72°F (22°C), immersed in water 24 hours.



**Crack-Pac Kit  
(ETIPAC2G10KT)**

Crack-Pac injection epoxy is also available in the Crack-Pac Injection Kit (ETIPAC2G10KT). The kit includes everything needed to pressure inject cracks.

- 2 Crack-Pac cartridge/nozzle sets (ETIPAC2G10).
- 12 E-Z-Click™ injection ports.
- 2 E-Z-Click injection fittings with 12" tubing.
- 1 pint of ETR paste-over epoxy (8 oz. of resin + 8 oz. of hardener).
- 4 disposable wood paste-over applicators.
- 1 pair latex gloves.