

CRACK REPAIR ACCESSORIES



Crack Repair Accessories

EMN022 – Opti-Mix® Mixing Nozzle

The Opti-Mix® static mixing nozzle is specifically designed for crack injection epoxies and ensures thorough mixing of epoxy components:

- For use with both low viscosity and gel viscosity ETI formulations.
- Flow regulators ensure that resin and hardener flow at equal rates and prevent mixed epoxy from flowing back out of the nozzle into the cartridge. This ensures thorough mixing and prevents mixed product from curing in the neck of the cartridge, causing blockage. Testing shows that mixing with the Opti-Mix nozzle is 4 times more consistent than a standard spiral mixing nozzle.
- For use with pneumatic, battery and manual dispensing tools.
- Half the length of standard spiral mixing nozzles, allowing easy access in cramped conditions and reducing waste.
- Barbed end allows easy attachment to the E-Z-Click™ injection fitting.
- When dispensing low viscosity material, using a standard spiral mixing nozzle and a manual dispensing tool, resin and hardener surge unevenly through the nozzle without being thoroughly combined. The result is poorly mixed epoxy that will not fully cure and will not effectively repair the crack. The Opti-Mix nozzle corrects this problem utilizing unique mixing elements and a flow regulator that allows the use of a manual tool with low viscosity epoxy.

E-Z-Click™ Injection System

The E-Z-Click injection system is comprised of a specially designed fitting and ports that take the mess out of your repair project while allowing you to work faster. The E-Z-Click injection fitting installs onto the end of the Opti-Mix mixing nozzle and clicks onto the E-Z-Click™ ports during injection.

- Positive connection eliminates messy leakage, minimizing waste and clean-up.
- No drilling of ports: E-Z-Click ports perform while pasted to the surface of the concrete. No drilling required for most applications.
- Disconnect the fitting and the epoxy stops flowing, no leaky mess.
- After injecting, pull the head of the E-Z-Click port out to close it and prevent leakage.
- One person can work faster without having to hold the tube on the port.

ETR Epoxy Paste-Over

Ideal for pasting over the surface of cracks and attaching ports for pressure injection. The non-sag paste consistency enables paste-up on horizontal, vertical and overhead applications. Fast cure time means shorter time between paste-over and injection. Packaged as a kit in separate 8 oz. canisters which are mixed manually to yield 16 ounces of epoxy. Also ideal for small concrete repair application: spall repair and misc. patching. Each kit contains enough material to cover approximately 8 lineal feet of cracks.

CIP Paste-Over

CIP is a fast-curing, two-part epoxy paste over material. It is used to seal cracks and to secure injection ports over concrete prior to epoxy or urethane foam injection repair. CIP sets up hard and can either be left on the concrete or ground or chiseled off at the completion of a crack injection job.

CIP-F Paste-Over

CIP-F is a flexible, peelable and fast-curing polyurea paste-over material. It is used to temporarily seal cracks and to secure injection ports over concrete prior to epoxy or urethane foam injection repair. CIP-F can be peeled off at the completion of a crack injection job by pulling on starter tabs placed under the lead edge surface at the time of application or by prying under the paste-over.

Crack Repair Accessories Product Data

Description	Model No.	Pkg. Qty.	Ctn. Qty. (ea.)
6 Opti-Mix® mixing nozzles for ETI epoxies (6½" long, ¾" square). Includes retaining nuts. ¹	EMN022-RP6	6	30 (5 Packs)
100 standard E-Z-Click™ flush mount injection ports (not compatible with CIP-F paste-over)	EIP-EZ	•	100
20 standard E-Z-Click flush mount injection ports and 1 E-Z-Click injection fitting (not compatible with CIP-F)	EIP-EZKT	•	5 Kits
100 stiff-flange E-Z-Click flush mount injection ports and 1 E-Z-Click injection fitting (compatible with all Simpson Strong-Tie paste-overs)	EIP-EZA	•	100
20 stiff-flange E-Z-Click flush mount injection ports and 1 E-Z-Click injection fitting (compatible with all Simpson Strong-Tie paste-overs)	EIP-EZAKT	•	5 Kits
20 E-Z-Click corner mount/drilled-in injection ports ²	EIPX-EZ-RP20	20	100 (5 Packs)
20 E-Z-Click corner mount/drilled-in injection ports and 1 E-Z-Click injection fitting ²	EIPX-EZKT	•	5 Kits
E-Z-Click injection fitting	EIF-EZ	1	10
ETR Kit containing 1 8-oz. canister of resin and 1 8-oz. canister of hardener	ETR16	•	4 Kits

1. 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.
2. EIPX intended for use as a surface mount port in corners and a drilled-in port on flat surfaces. All accessories compatible with ETI-LV and ETI-GV epoxies.

Crack Injection Paste-Over in Cartridge Delivery System

Model No.	Capacity ounces (cubic inches)	Cartridge Type	Carton Quantity	Dispensing Tool(s)	Mixing Nozzle
CIP	22 (39.7)	side-by-side	10	EDT22B, EDT22AP, or EDT22CKT	EMN22
CIP-F	22 (39.7)	side-by-side	10	EDT22B, EDT22AP, EDT22CFT	included

1. Use only appropriate Simpson Strong-Tie mixing nozzle in accordance with Simpson Strong-Tie instructions. Modification or improper use of mixing nozzle may impair paste over performance.
2. Each cartridge contains enough material to cover approximately 8 lineal feet of cracks.
3. CIP-F can be dispensed without the mixing nozzle and mixed by hand using a mixing board and putty knife.



Opti-Mix®
Mixing Nozzle



E-Z-Click™ Ports and
Injection Fitting



E-Z-Click™
Injection Fitting



EIP-EZA
Flush Mount
Port
(EIP-EZ
similar in
appearance)



EIPX-EZ
Corner
Mount/
Drilled-In
Port



ETR16

Cure Schedule - ETR and CIP

Base Material Temperature	Cure Time	
	°F	°C
40	4	24 hrs.
60	16	2 hrs.
80	27	1 hr.
100	38	1 hr.



CIP



CIP-F

Cure Schedule - CIP-F

Base Material Temperature	Cure Time	
	°F	°C
40	4	3 hrs.
72	22	1 hrs.

Detailed information on the full line of Simpson Strong-Tie® manual and pneumatic dispensing tools is available on pages 87–88.

Crack Injection