

## 7.2.1 CI 060 Crack Injection System

### 7.2.1.4 Installation Instructions



1. Clean surface along the crack. Blow out crack with dry and oil-free compressed air.

2. Bond injection ports with RE 500 injection epoxy.

Port spacing approximately 6" to 12" with wider spacing for thinner slabs.

3. Seal the crack with RE 500 injection epoxy strips of minimum 2" wide, 1/8" deep. (Seal both sides if crack goes completely through concrete.)

4. A light tap with a hammer to the rear end of the CI 060 EP cartridge releases the hardener.

Mix by seesaw motion for approximately 30 motions. Do not shake.

5. Puncture the seal of the cartridge tip. Then screw on connection hose.

6. Plug connection hose to bottom port. Place air relief stopper in next port above.

7. Inject CI 060 EP resin until it appears visibly in the next port above or until the port accepts no more resin (when normal hand pressure is used on the dispenser).

8. Detach connection hose from port and plug to the next higher port. Repeat operating steps 6 and 7 up to the end of the crack.

9. After the injection resin has set, generally over 48 hours, the ports and the sealing compound can be removed with a flat chisel.

If required, the surface can be ground even.

#### • Injection Resin CI 060 EP

**Shelf life from date of manufacture when stored at 50°F to 80°F (10°C and 27°C)**

Resin and hardener: 2 years

**Rec. application temp. Range**  
50° to 113°F (10°C and 45°C)

#### **Working Time**

90 minutes at 50°F (10°C)

40 minutes at 73°F (23°C)

15 minutes at 90°F (32°C)

**Min. curing time at 68°F (20°C)**

Approx. 24 hrs

#### **Compressive Strength**

12,000 psi

#### **Tensile Strength**

7,120 psi

#### **Compressive Modulus**

265,000 psi

#### **Contents**

1 tube CI 060 EP resin and hardener=14.3 in<sup>3</sup>

#### • Surface Sealing Compounds

**Shelf life from date of manufacture when stored at 59°F to 77°F (15°C and 25°C)**

Resin and hardener: 1 year

**Rec. application temp. Range**  
40° to 90°F (4°C and 32°C)

#### 4.2.1.1 Product Description

CI 060 EP is a liquid epoxy that is packaged in a self-contained cartridge with resin and hardener. The CI 060 EP is designed for repairs of thin cracks less than 1/4" (6 mm) in concrete base material.

#### Product Features

- Low viscosity, penetrates cracks as narrow as 0.002" (0.051mm)
- No shrinkage, no solvent fumes
- Bonds to both concrete and steel
- Excellent resistance to water, salt water, alkalis and many chemicals
- Forms strong, permanent, water resistant bonds



#### CI 060 EP Crack Injection System Volume of Epoxy required (in<sup>3</sup>) per Linear Foot of Crack<sup>1</sup>

Depth of Crack (in)	Crack Width (in.)												
	0.0050	0.0100	0.0200	0.0312 (1/32")	0.0400	0.0550	0.0625 (1/16")	0.0700	0.1250 (1/8")	0.1450	0.1770	0.1870 (3/16")	0.2050
1"	0.06	0.12	0.24	0.37	0.48	0.66	0.75	0.84	1.50	1.74	2.12	2.24	2.46
2"	0.12	0.24	0.48	0.75	0.96	1.32	1.50	1.68	3.00	3.48	4.25	4.49	4.92
4"	0.24	0.48	0.96	1.50	1.92	2.64	3.00	3.36	6.00	6.96	8.50	8.98	9.84
6"	0.36	0.72	1.44	2.25	2.88	3.96	4.50	5.04	9.00	10.44	12.74	13.46	14.76
8"	0.48	0.96	1.92	3.00	3.84	5.28	6.00	6.72	12.00	13.92	16.99	17.95	19.68
10"	0.60	1.20	2.40	3.74	4.80	6.60	7.50	8.40	15.00	17.40	21.24	22.44	24.60
12"	0.72	1.44	2.88	4.49	5.76	7.92	9.00	10.08	18.00	20.88	25.49	26.93	29.52
16"	0.96	1.92	3.84	5.99	7.68	10.56	12.00	13.44	24.00	27.84	33.98	35.90	39.36
18"	1.08	2.16	4.32	6.74	8.64	11.88	13.50	15.12	27.00	31.32	38.23	40.39	44.28
24"	1.44	2.88	5.76	8.99	11.52	15.84	18.00	20.16	36.00	41.76	50.98	53.86	59.04
36"	2.16	4.32	8.64	13.48	17.28	23.76	27.00	30.24	54.00	62.64	76.46	80.78	88.56