

# CARBON STITCH

## CONCRETE CRACK LOCK STITCH KIT INSTRUCTIONS

### WHAT COMES IN THE CONCRETE CRACK LOCK KIT?



#### KIT INCLUDES

- (20) Concrete Crack Lock Stitches
- (1) Tube of High Strength Anchoring Epoxy Paste
- (1) Static epoxy mixing nozzle
- Gloves and instructions

#### PRODUCTS COMMONLY USED WITH THIS REPAIR



Dual Epoxy Gun  
300/300 ml or 300/150 ml gun

### RECOMMENDED POWER TOOLS

(TOOLS MAY VARY DEPENDING ON PROJECT)

#### 5-Inch Surface Grinding Dust Shroud Kit



Use before and after installation  
\*\*USE DIAMOND CUP WHEEL

#### 10-Gallon HEPA Dust Extractor



Collects dust while attached  
to grinder and shroud tools

#### Tuck Point Grinder with Dust Shroud Attachment



Use to cut across crack  
\*\*USE SINGLE DIAMOND BLADE

#### Hammer Drill



Use to drill holes  
\*\*USE CHISEL OR SPADE TIP ATTACHMENT

### YOU WILL ALSO NEED...

- Safety goggles
- Respirator mask
- Hard hat
- Coveralls
- Drop cloth/plastic
- Marker
- Hammer
- Epoxy Gun
- Measuring tape
- Putty Knife

### SAFETY WARNINGS

Please read and follow safety procedures for all tools and wear proper safety equipment during installation. While using power tools, follow all EPA/OSHA guidelines for lead paint removal and respiratory protection. For more information visit [www.epa.gov](http://www.epa.gov) or [www.osha.gov](http://www.osha.gov).

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PLEASE READ ALL DIRECTIONS CAREFULLY & WEAR SAFETY GOGGLES BEFORE INSTALLING



## 01 PREP

- Lay plastic or drop cloth around work surface (if needed)
- Grind across the surface of the crack to ensure it is smooth
- Remove all loose concrete & debris

Tools: grinder, plastic, drop cloth, or tape



## 02 CONCRETE CRACK LOCK LOCATIONS

- Mark the first Concrete Crack Lock (CCL) as close to the beginning of the crack as possible
- The CCL's should be installed every 8" to 12" (20 cm to 30 cm) roughly perpendicular to the crack. Vary the angle slightly to reinforce the crack in all directions.
- Center the CCL over the crack and trace the outline of the CCL

Tools: marker and measuring tape



## 03 CUTTING

- Using the tuck point grinder with a .08" (2 mm) thick blade, make the cut across the crack for the Concrete Crack Lock
- The cut should be around 5/8" deep to provide approximate 1/8" (3 mm) coverage above and below the CCL
- Make sure the cut is full depth from hole location to hole location

Tools: tuck point grinder

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## 04 DRILL

- Line the Concrete Crack Lock ends up with the cut
- Mark and drill the holes the same depth as the cut
- Drill 1/2" (13 mm) holes at each end of the cut where the Concrete Crack Lock ends will be inserted

Note: a 5/8" drain hole may be drilled to aid in providing proper fit, but they will require additional epoxy to fill

Tools: drill, 1/2 inch masonry drill bit



1.  
First fill hole

## 05 INSTALL

1. Fill the cut and holes with the High Strength Anchoring Epoxy Paste
2. Insert the Concrete Crack Lock into the cut and work it in to ensure all voids around the CCL are completely filled
3. Top off the cut with the High Strength Anchoring Epoxy Paste until it is even with the concrete surface
4. Scrape away any excess epoxy and apply to the crack or the next CCL location

Note: Areas around the CCL can be taped off to aid in a cleaner installation.

Tools: putty knife



2.  
Press the Concrete Crack Lock into epoxy



3.  
Apply epoxy over the Concrete Crack Lock



4.  
Scrape away excess epoxy



## 06 FINISHING PRODUCT (optional)

- If the epoxy settles you can add more epoxy to the cuts. You can grind any excess epoxy off with a grinder once it has cured
- Once the High Strength Anchoring Epoxy Paste has dried and all clean up/grinding has been completed, you can paint or seal over the repairs