

RHINO CARBON FIBER CONCRETE CRACK LOCK KIT INSTRUCTIONS

Revision Date 06/16/2021

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01

WHAT COMES IN THE CONCRETE CRACK LOCK KIT?



KIT INCLUDES

- (20) Rhino Carbon Fiber 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



Rhino Carbon Fiber 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 or 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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03



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