

RHINO CARBON FIBER™ CRACK REPAIR KIT INSTRUCTIONS

Revision Date 06/16/2021

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01

WHAT COMES IN THE CRACK REPAIR KIT?



KIT INCLUDES

- (1) 12" wide carbon fiber strap (length is determined by kind of kit)
- (2) Tubes of Saturant-Adhesive Epoxy
- (2) Static epoxy mixing nozzles
- Gloves and Instructions

PRODUCTS COMMONLY USED WITH CRACK REPAIR



Rhino Carbon Fiber™ Dual Epoxy Gun
300/300 ml or 300/150 ml gun



Rhino Carbon Fiber™ Concrete Crack Lock™ stitches
Adds extra strength during repair



RCF™ High Strength Anchoring Epoxy Paste
Used to fill cracks

RECOMMENDED POWER TOOLS

5-Inch Surface Grinding Dust Shroud Kit



Use for grinding foundation wall
**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 tuckpoint the wall
**USE DIAMOND EDGE BLADE

Hammer Drill



Use for concrete removal
**USE CHISEL OR SPADE TIP ATTACHMENT

YOU WILL ALSO NEED...

- Safety goggles
- Respirator mask
- Hard hat
- Coveralls
- Drop cloth
- Gravel
- Scissors
- Marker
- Hydraulic cement
- Epoxy gun
- Measuring tape
- Shovel/bucket

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

- Locate where Rhino Carbon Fiber Crack Repair Kit will be installed
- Mark the crack at the top, middle and bottom of the wall
- Mark 7" on both sides of the crack at top, bottom and middle locations

Tools: marker



02 CONCRETE REMOVAL

- Remove 14" of the concrete floor centered on the crack down to the footer

Note: Concrete should be removed past the edge of the footer

Recommended Tools: hammer drill



03 GRINDING

- Grind the foundation wall where the crack repair material will be installed (use previously marked locations as a guide)
- Achieve a "Bare Foundation"
- Rhino Carbon Fiber Crack Repair should span from the sill plate to the footer

Note: Remove all caulk/latex/etc. from work area

Tools: grinder



04 FILL

- Option 1: Fill the crack with High Strength Anchoring Epoxy Paste or hydraulic cement prior to mounting the carbon fiber
- Option 2: Inject the crack with Rhino's Injection products

Note: only fill the crack in areas that are above the slab, so there is a release for any water that gets into the crack

Tools: high strength anchoring epoxy paste or hydraulic cement and epoxy gun



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06 MOUNT

- Measure the height of the foundation wall from the sill plate to the footer and add 6"
- Cut carbon fiber to length
- Make sure crack will be completely covered by carbon fiber
- Install a thin layer of gravel on top of the footer to provide a release for any water that comes through the crack

Tools: measuring tape and scissors/utility knife



07 EPOXY

- Apply a thin layer of epoxy to the foundation wall working from top to bottom covering the entire prepped surface using squeegee, trowel epoxy to achieve a uniform coating of epoxy
- Once a sufficient coating of epoxy is applied to foundation wall, lay carbon fiber crack repair over the epoxy ensuring the carbon fiber completely covers the crack
- Use light strokes with desired tool to spread epoxy in the direction of the tows if the carbon fiber is unidirectional

Tools: saturant-adhesive epoxy, epoxy gun and squeegee



05 BACKFILL REPLACEMENT

- Using gravel or small pieces of concrete leftover from removal, fill area leaving a minimum of 3" for new concrete

Tools: gravel



08 FINISH

- Mix concrete per manufacturer's recommendation
- Pour concrete into work area and trowel to a smooth, uniform finish

Tools: concrete, bucket, shovel and trowel



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