



Repair Guide – DIY Foundation Crack Repair Kit (Polyurethane)

Due to the variability in conditions, the selection of the proper material for the intended application and the installation are the responsibility of the applicator.

REPAIR KIT CONTENTS

Each DIY Foundation Crack Repair Kit includes all of the materials and accessories for low-pressure injection and repair of roughly 8 linear feet of crack.

Injection Polyurethane Resin	2 cartridges
Surface Sealer/Port Adhesive (Standard DIY Kit only)	2 jars
Surface Sealer/Port Adhesive (Easy-Peel kit only)	2 cartridges
Injection ports with caps	12
Wooden mixing sticks	2
Static mixing nozzles	2
Retaining nuts	2
Hose assembly & shut-off valve	1
Safety goggles	1
Nitrile gloves	2 pair
Plastic trowel	1
Wire brush	1
Drop cloth	1
Instructions & instructional DVD	1
Product Data Sheets & MSDS	1

TOOLS REQUIRED

- Standard caulking gun
- Paper plate or scrap cardboard
- Clean plastic bottle (dish soap, ketchup)
- 4 inch piece of duct tape or cloth (Easy-Peel Kit only)

CRACK PREPARATION

Clean the surface surrounding the crack using the wire brush. Remove loose or flaking concrete, efflorescence, paint or coating to approximately 1-2 inches on either side of the crack. Wipe the surface clean of dust after brushing. The surface must be dry for proper installation of injection ports and surface sealer. If needed, use a hot air gun, hair drier, or compressed air to dry. Place the drop cloth on the floor in front of work area.

INJECTION PORT PLACEMENT

Injection ports should be spaced roughly 8 inches apart centered over the crack, starting at a point closest to the floor (vertical cracks). Mark port locations on the wall.

SURFACE SEALER & PORT ATTACHMENT

1. Standard DIY Injection Kit - Using **separate** wooden mixing sticks prepare the surface sealer/port adhesive by placing equal amounts of Part A & Part B, about 1/3 of each jar (which will cover about 2-3 feet of crack), on a paper plate or scrap cardboard and mix with the trowel. Mixing sticks must not be shared between containers.
Note! Do not mix more than 1/3 of each jar at a time.

- 1a. Easy-Peel DIY Injection Kit - Place the surface sealer cartridge in your caulking gun and open by removing the plastic nut. Then twist and pull to remove the protective seal. Dispense a small amount onto a paper plate or cardboard and mix thoroughly using the trowel.
2. Remove the cap from each surface port and apply a small amount of the adhesive to the bottom of the port base. Place the first port at the bottom of the crack and repeat every 8" until the entire crack is ported. **NOTE! Epoxy must not block the port opening or the crack under it.**
3. Use the trowel to apply the surface sealer/port adhesive along the entire length of the crack. The recommended application is 1/8" thick and 2" wide. Be sure to mound extra epoxy over the base of the ports. Use the total amount provided for an 8-foot crack. Avoid working the epoxy "into" the crack; just paste it over the surface.
4. Place a 4" piece of duct tape or cloth at the top (or end) of the crack and apply surface sealer over it, leaving a small tab at the very top.
5. Allow surface seal/port adhesive to cure fingernail hard, about 2-4 hours, before injection. (Not recommended to wait overnight)

INJECTION PROCEDURE

Tip: Submerging the polyurethane cartridges for 15 minutes in a pot of hot water will heat up the resin and make the injection easier, particularly for hairline cracks.

1. Flush the crack by injecting 1-2 cups of water into the top port using a plastic bottle. Water should exit from every port below, indicating that the crack is contiguous and the ports are not blocked. Water cleans the crack and aids in polyurethane expansion.
2. Place the injection polyurethane cartridge in your caulking gun. Remove the plastic nut, twist and pull to remove the plastic seal. Place the static mixer over the end of the cartridge and attach with the plastic retaining nut.
3. Attach the flexible hose assembly (wide end) over the mixer tip by pushing firmly.
4. For vertical cracks, attach the small end of the hose assembly into the **lowest** port by pressing firmly. For horizontal cracks, begin at either end.
5. Begin **slowly** injecting (allowing the resin to flow into and fill all small fissures) until the resin begins to flow from the port directly above. Use the plastic shut-off valve on the hose assembly to stop the resin flow. Plug the first port with the port cap, and move up to the next port. Repeat this procedure until the entire crack has been injected.
Note! Effective crack repair requires slow, low-pressure injection. Hairline cracks may require 3 minutes at each port for proper filling.

CLEANUP

Standard DIY Injection Kit - Ports can be removed by striking with a hammer 3-4 hours after injection. Surface sealer can be removed with a grinder and/or painted over.
Easy-Peel DIY Injection Kit - Firmly grasp and pull duct tape or cloth tab to peel surface sealer and ports from the wall at once. Place all disposable items on the drop or a garbage bag and dispose of it properly.