Ferrco Inc.

BASEMENT REPAIR KIT

INSTALLATION INSTRUCTIONS

For poured concrete, brick, or stone foundation walls only. *Not recommended for hollow-core block walls due to internal voids.*

BEFORE YOU BEGIN

Read <u>all</u> instructions thoroughly and watch the instructional video before starting.

- Wear protective gloves and eye protection.
- This kit is intended for vertical or diagonal cracks up to ½" wide in solid concrete, stone, or brick walls.
- Materials may be applied to damp surfaces, but for best results, the area around the crack should be clean and dry.
- Avoid mixing large amounts of epoxy unless directed – this can cause premature curing and reduced working time.

INCLUDED IN THE KIT

- Pow-R-Stick Putty
- Two-part surface seal epoxy **(A & B)**
- **(2)** HyperFlex polyurethane injection foam
- **(15)** Injection ports
- **(2)** 18" Injection hose
- **(2)** Injection nozzle
- Squeeze water bottle
- 2" Putty knife
- **(4)** Mixing sticks
- **(4)** Nitrile Gloves
- 36" x 60" Plastic drop cloth

YOU WILL NEED

- Safety glasses
- Stiff bristle brush
- Marking pen
- Caulk gun
- Hammer
- Chisel (for crack prep if necessary)
- Pliers

STEP ONE | SURFACE PREP

1. Lay the plastic drop cloth at the base of the repair area to catch debris.
2. Scrub the crack and surrounding wall surface using a stiff bristle brush to remove any dust, loose material, or efflorescence.
3. If the wall is painted or sealed, use a hammer and chisel to lightly scuff and remove the coating along the crack. This will ensure proper epoxy adhesion.
4. Use a marking pen to place a mark every 8" along the length of the crack – these marks indicate where the injection ports will go.

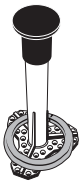


TIPS

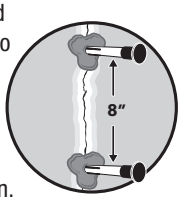
- Use a shop vacuum to clean the crack after brushing for best adhesion.
- For hairline cracks, lightly open the surface to approximately 1/16"– ⅛" wide and about ¼" deep using a chisel and hammer. This helps Improve material access and bonding.

STEP TWO | INSTALL INJECTION PORTS & SEAL THE CRACK

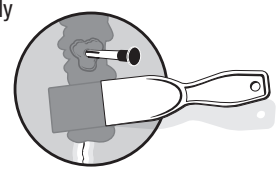
1. Break off a small amount of Pow-R-Stick putty and knead it by hand until it becomes a smooth, uniform grey color, with no visible streaks or unmixed material. The putty will begin to warm slightly as you work it, this is normal and indicates it's ready to use.



2. Roll the putty into a rope and form it in a circle around the base (feet) of the injection port. Press the port onto your previously marked location along the crack (spaced every 8"), then press and smooth the putty outward to create a consistent, moderately thin seal around the base. This reinforces the feet and helps prevent Hyperflex foam from escaping during injection.



3. Repeat this process for each port. The putty sets in approximately 10–15 minutes. Once all ports are in place and the Pow-R-Stick has cured, open the two epoxy jars.
4. Using the provided mixing sticks, start with a small batch of epoxy. Combine equal parts of each component on a clean, disposable surface such as a scrap piece of cardboard.
5. Take the included 2" putty knife and apply a ⅛" thick layer of epoxy over the entire length of the crack, and around the base of each injection port, beginning with the first port you installed. Apply only to the surface – do not fill the crack.



6. Allow the epoxy to cure for at least 6 hours, or until it is hard to the touch, before moving on to Step 3.

TIPS

- Work efficiently once the epoxy is mixed as it will begin to set as it cures.
- For best results, allow the epoxy to cure overnight before continuing to Step 3.

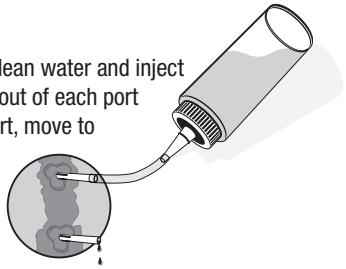
BASEMENT REPAIR KIT

INSTALLATION INSTRUCTIONS

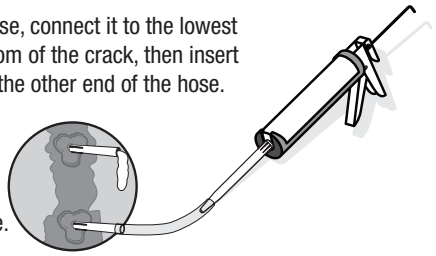
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STEP THREE | INJECTING HYPERFLEX

1. Remove the red cap from each injection port. Do not discard them, as they will be used in a later step.
2. Starting at the top of the crack, connect one of the 18" injection hoses to the opening of that injection port.
3. Fill the provided squeeze bottle with clean water and inject water into the top port until it trickles out of each port below. If water doesn't flow from a port, move to the port directly above it and continue flushing until flow is observed. Water must be present around each port to properly activate the HyperFlex foam.



4. Load a tube of HyperFlex into a standard caulk gun. Using a pair of pliers, remove the red screw cap, then attach the injection nozzle by hand.
5. Using the second 18" hose, connect it to the lowest injection port at the bottom of the crack, then insert the injection nozzle into the other end of the hose.
6. Slowly begin injecting HyperFlex. Stop when foam begins to appear at the port directly above.



7. Relieve pressure from the caulk gun, remove the tubing, and re-cap the injected port.
8. Move up to the next port and repeat the process. Continue working upward from port to port until the entire crack is filled.
9. Once all ports have been injected and re-capped, allow the foam to cure for approximately 90 minutes.

TIP

- Work steadily and avoid rushing. Injecting too quickly can create voids or cause blowouts. Always inject from bottom to top.

STEP FOUR | CLEANING & FINISHING

1. After the foam has cured, remove the injection ports using a hammer and chisel.
2. Sand or scrape the cured epoxy smooth if desired.
3. Dispose of leftover materials safely (see below).

SAFETY & SUPPORT

Keep out of reach of children. Avoid contact with skin and eyes. Use ina well ventilated area. Do not ingest. Refer to full safety and handling information via QR code.

- Always wear gloves and safety glasses during application.
- For product information, safety data sheets (SDS), and other support materials, visit: ***www.fernco.com/water-management/basement-repair-kit***

DISPOSAL

- **Epoxy:** Securely close the lids on any unused epoxy components. Allow any mixed epoxy to fully cure before discarding. Do not pour uncured epoxy into drains or trash.
- **HyperFlex:** Empty cartridges can be discarded in the trash. For partially used cartridges, dispense remaining material onto damp cardboard or a moist surface to allow proper curing. HyperFlex requires water to activate and cure — ensure moisture is present to complete the reaction before disposal.
- **Pow-R-Stick Putty:** Once the putty is fully cured and hardened, it can be thrown away with regular household trash. Do not wash uncured material down drains or release it into the environment. Dispose of any unused putty at your local hazardous-waste facility.
- Always follow local regulations regarding the disposal of chemical products and construction materials.

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