

# FLEXOMERIC™

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**DO IT YOURSELF**

# **CRACK REPAIR KIT**

**Step by Step**

# **Instructions**

**[www.flexomeric.com](http://www.flexomeric.com)**

**1-855-236-5566**

## **FLEXOMERIC CRACK REPAIR KIT COMPONENTS**

- 2 Flexomeric FLEXTUBE-110 Crack Repair Resin (300ml)
- 1 Flexomeric Crack Surface Paste and Port Adhesive (Part A)
- 1 Flexomeric Crack Surface Paste and Port Adhesive (Part B)
- 2 Injection Nozzles
- 2 Pieces of Vinyl Tubing
- 12 Injection Flat Ports and Caps
- 2 Wooden Stir Sticks
- 1 Plastic Trowel
- 1 Pair of Nitrile Rubber Gloves
- 1 Instruction Sheet and MSDS Booklet

## **REQUIRED TOOLS**

- Standard, Single Component Injection Gun (also known as caulking gun)
- Wire Brush
- Spray Bottle or Squirt Bottle for flushing crack with water
- Piece of cardboard to use for mixing adhesive part A with part B
- Drop sheet or Garbage Bags
- Chalk or Marker

# CRACK INJECTION PROCEDURE

Follow each step carefully to ensure the crack is properly repaired.

## **Step 1: Preparing the work area**

- Cover floor below the working area with a drop sheet or garbage bags
- Lay out all kit components and required tools to ensure all components are present

## **Step 2: Cleaning the poured concrete wall**

- Clean area to be repaired from loose concrete, paint, oil, dirt and other debris by using a wire brush in and around the area to be repaired (i.e. crack, tie rod, around a pipe). A chisel or utility knife can also be used to clean out any loose concrete in the crack.
- Make sure that the concrete surface is dry.

## **Step 3: Marking Injection Port Locations**

Using a chalk or marker, mark injection port locations according to the guidelines below:

- **Concrete Cracks:** Mark the first injection port position at or near floor level. Measure from the first port position up and along the crack the remaining port positions with the distance between each port equal to the wall thickness (usually 8"-10").
- **Tie Rods:** One Injection Flat Port is used for each tie rod injection.
- **Around Pipes:** Mark four injection port positions (0°, 90°, 180° and 270°) around the pipe. For pipes less than 2" diameter, two injection port positions are sufficient (90° and 270°).

## **Step 4: Applying Flexomeric Crack Surface Paste and Port Adhesive to Injection Ports and Crack**

### **MIXING PART A AND PART B INSTRUCTIONS**

#### ***For Best Results:***

Adhesives must be at 8°C or above when ready to mix. Do not use on wet surfaces or expose part A to moisture. Keep out of direct sunlight, store at room temperature. Keep adhesives warm when using in cool conditions.

#### ***Mixing and Applying Instructions:***

Flexomeric Crack Surface Paste and Port Adhesives Part A and Part B are mixed and applied at 1:1 ratio. The surface to be sealed is to be free of all contaminants that would act as a bond breaker. Surface must be dry and dust free. Wear rubber gloves provided in the kit for protection.

- Stir each component separately using one wooden stir stick for each component.
- Mix equal amounts of Part A and Part B with a spatula until a uniform appearance is achieved (approx. 2 - 4 minutes depending on temperature). **ONLY MIX AMOUNTS YOU WILL USE WITHIN 2 MINUTES AT A TIME.**
- With plastic trowel, carefully spread adhesive mixture on the bottom of the port being **cautious not to cover the injection hole**. Glue port over the crack so that the port injection hole lines up over the crack and hold in place until secure. Use your markings in Step 3 as a guide to position and glue each injection port.
- Once injection ports are glued over the crack, again with the plastic trowel, apply adhesive evenly over the crack and over base of injection ports. Use generous amount of adhesive mixture to ensure no resin leakage during injection.

- If the crack is visible above grade level on the outside of the foundation wall (or the other side), clean surface with wire brush, wipe and dry surface from dirt and residue, then apply adhesive mixture to that surface as well. This will act as a wall barrier during the injection process.

***ALLOW ADHESIVE TO CURE COMPLETELY BEFORE CONTINUING TO THE NEXT STEP.***

***NOTE:*** Injection Corner Ports are available and sold separately for corner cracks.

**Step 5: Establishing Water Flow through the Crack**

- Using a hand-held water spray bottle or squirt bottle, flush crack by injecting water into top injection ports, allowing water to drain from the lower ports, ensuring a clear and wet path in the crack.
- If leakage occurs along the crack during this process other than through the port injection holes, stop and reseal areas with additional adhesive mixture and allow paste to cure before proceeding onto the next step.

**Step 6: Sealing the Crack by Injection**

Be prepared. Wear protective goggles, suitable gloves, and clothing.

- Cut off the tip of the Flexomeric FLEXTUBE-110 Crack Repair Resin tube and the tip of the injection nozzle. Screw on the nozzle. Attach the piece of vinyl tubing onto the nozzle.
- Load cartridge into standard, single component injection gun.

- Starting from the **bottom** injection port, insert the vinyl tube over the injection port and inject slowly, applying even pressure, allowing material plenty of time to react. Continue injecting until resin flows out of the next injection port up (this should take approximately (20 -240 seconds). Cap the current port and continue injection through the next port up. Continue same procedure from one port onto the next until the entire crack is sealed.

***NOTE:*** IN CASE OF LEAKAGE, STOP INJECTING AND RESEAL WITH ADHESIVE MIXTURE. If flow to the next port is not established, then increase pressure to break through the plugged passage. If flow is still not established, release the pressure on the caulking gun and insert a long, fine wire into this port. If the flow is still not established, continue injection from the next port up. **WARNING:** Be careful around floor drains and drainage tile.

### **Step 7: Curing**

Once crack is completely filled, let cure (approximately 24 hours) and remove injection ports and sealing cement (adhesive) once cured, if you wish.

### **WARNING**

- For actively leaking cracks where the crack surface will not dry for patching purposes, alternative hydraulic cement may be used in place of Flexomeric Crack Surface Paste and Port Adhesives.
- Do not inject between concrete and wood.
- The temperature of the concrete must be at least 5°C.
- Protective gear must be worn (i.e. face shield, goggles or safety glasses).
- Ensure good ventilation or wear respirator.