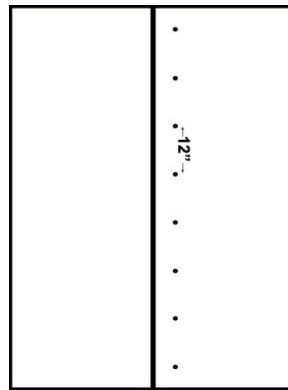
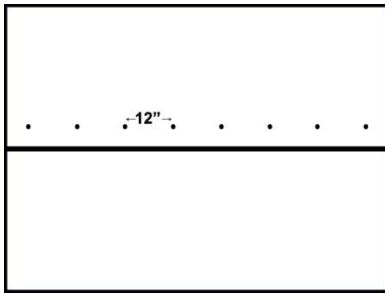


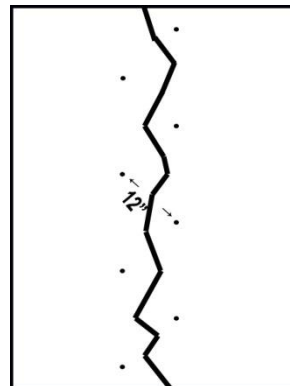
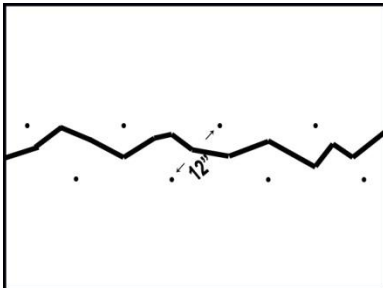
# THE TECHNIQUES

## Low Pressure Crack Hand Injection with HyperFlex

- For cracks at least 1/8" wide at its narrowest point with slow to moderate flow.
- If crack is uniform, such as a cold or barrel joint you can drill a 5/8" or 3/8" hole every 12 inches along one side of the joint. Offset the crack 4 to 6 inches and drill at a 45° angle to ensure interception of the crack.



- If crack is non-uniform it must be stitched



## Typical Application

Leaking foundations, poured concrete structures, manholes

## Required Equipment

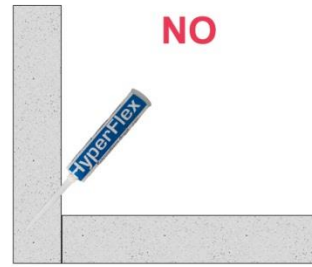
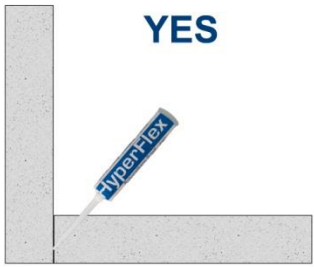
- 3/8" Drill bit and Hammer Drill
  - 300ml tubes of HyperFlex
  - Garden sprayer with water
  - Burlap / oakum / backer rod
  - Goggles / gloves / old clothes
  - Wooden dowels – to plug your injection holes as you go
- In situations where water is actively flowing from crack, or if the crack is fairly wide (greater than ¼") it will be necessary to "chink" the crack with burlap, oakum rope or backer rod. This keeps the urethane in the crack and increases confinement, and in turn provides a tighter seal.

## Instructions:

1. Insert nozzle tip firmly into the hole, if the drill bit "walked" a bit and the fit is loose, you can wrap a piece of duct tape around the nozzle to tighten the fit.
2. Begin pumping HyperFlex at a steady moderate pace. Continue until refusal. If, when beginning to pump, the trigger is difficult to pull or grout is running freely out around the nozzle tip, stop. The crack is either too narrow to accept grout or the hole drilled did not intersect the crack. Drill another hole being careful to drill at a 45° angle.
3. Once the HyperFlex cures, the excess may be cut or scraped off. The crack may then be patched with hydraulic cement or epoxy.

## **SPECIAL NOTE ON INJECTING THE WALL / FLOOR JUNCTION IN A BASEMENT REPAIR**

- When injecting into a leak coming in the junction between the basement wall and the poured concrete floor, ALWAYS inject from the floor into the junction. This is due to the way the floor is poured. If you drill through the wall, you will not have a successful result.



As HyperFlex reacts and fills the void, foam is visible at the injection site.



In this photograph, HyperFlex is being used to fill a void found on the other side of this very old farmhouse wall.

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