EXPANDING YOUR PROFITS WITH LOW PRESSURE CRACK INJECTION

Presented by Marge Kaminski & Ryan Earley
WHOLE HOME AIR QUALITY IMPROVEMENT
High Pressure Injection

- Drilling
- Possible Stress Damage to the Concrete
- Clean up of Excess, Uncontrolled Foaming

at 1,000-10,000 psi
The secret to effective crack injection, whether with epoxy or polyurethane foam, is patient low pressure introduction of the product into the crack.

Low pressure allows the applicator to properly monitor the injection process.

At this pressure range (20-40 psi) the applicator can be confident that the crack has been saturated and the repair will be successful.

Low Pressure Injection

at 20 - 40 psi
(can be utilized at up to 250 psi)
EPOXY or POLYURETHANE FOAM

Possible directions of wall movement:

- Thermal changes (opening & closing)
- Uneven loading and settling of footing
- Soil pressure
- Soil drainage

Non-structural with possible water leakage

If you have any of the above structural problems

EPOXY

POLYURETHANE FOAM
**Hydrophobic**

Fills the void from foundation wall to the soil. Displaces water as it forms a rubber-like membrane behind the foundation which blocks water from reaching the crack to stop leakage.

**Hydrophilic**

Acts as a sponge and will absorb as much water as is available in its surroundings during the foaming process. Use is excellent where there is limited movement and/or water is always present.
Hydrophilic foam acts like a sponge and will absorb all the water that’s available in its surroundings during the foaming process.

As trapped water evaporates, shrinkage of the foam will occur.

When water is again present, the foam will absorb the water and return to its original size.
PREPARE CONCRETE SURFACE

- Before applying surface seal remove loose or flaking concrete with a wire brush.
- Dry surface prior to applying surface ports.
PLACEMENT OF SURFACE PORTS

- Mix a small amount of surface seal paste & apply to flange of port
- Place port directly over crack approximately every 6 to 10 inches

Note: do not allow surface seal to block the port opening
APPLY EPOXY SURFACE SEAL

- After all ports have been placed over the crack, cover the rest of the crack with the surface seal.
- You will be ready for injection when surface seal is “fingernail hard”.
- Prior to injection, test and prep crack with water.
A void is a separation of the foundation wall and the back-fill which can allow collection of water behind the crack and cause it to leak.

- Hydrophobic urethane foam displaces water and fills the soil voids, sealing out water permanently.
- Excellent for residential poured concrete foundation crack repair.

LOW PRESSURE CRACK INJECTION
REMOVAL OF SURFACE PORTS

- Ports may be removed after injected material has completely cured by striking with a hammer or
- A peelable surface seal is recommended for easy removal of sealer and ports
LEARN MORE ABOUT ADDING CRACK INJECTION TO YOUR ARSENAL OF SERVICES

FOR MORE INFORMATION .............

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