

KIT INCLUDES:

- 2 ea. 15.9 oz SRS-3000 Crack Injection Epoxy cartridges
- 2 ea. SRS-2100 Concrete Repair Paste cartridges
- 12 injection ports with ball-bearing backflow prevention
- 2 mixing nozzles for SRS-3000
- 2 mixing nozzles for SRS-2100
- Tube assembly
- Plastic putty knife
- 1 pair of nitrile gloves

USING THE PROPER TOOLS FOR THE JOB

Capping paste, crack injection epoxy, mixing nozzles, injection ports, flow control clips, tubing assembly, gloves, and a putty knife are included. Additional required tools/materials include a standard caulking gun or high-thrust dispensing tool, wire brush, and protective eyewear. Optional equipment for removing cured capping paste includes a grinder and face mask for dust protection.

IMPORTANT: Not for use in cracks with actively running water.



PREPARE THE CRACK FACE

Using a wire brush, thoroughly clean the concrete surface surrounding the crack so the crack is not plugged with debris and contaminants. Ensure SRS-2100 Concrete Repair Paste will bond properly to the surface near the crack. For maximum bond strength, blow out the crack with compressed air.



CAPPING THE CRACK

Dispense SRS-2100 Concrete Repair Paste through the nozzle directly over the crack and smooth with the putty knife. Seal the entire crack length, paying special attention to completely encapsulating the bases of the injection ports to hold them firmly in place and prevent leakage during injection. Allow the capping paste to fully cure prior to starting injection. Cure time is dependent upon substrate temperature and epoxy material used. Refer to the cure chart on the cartridge.

COVERAGE PER KIT IN LINEAR FEET

Crack Width	Concrete Thickness			
	4"	6"	8"	10"
1/64"	44'	29.3'	22'	17.6'
1/32"	22'	14.7'	11'	8.8'
1/16"	11'	7.3'	5.5'	4.4'
1/8"	5.5'	3.7'	2.8'	2.2'
3/16"	3.7'	2.4'	1.8'	1.5'

COVERAGE EXAMPLE:

Under typical conditions, this kit provides sufficient material to fully repair up to 10 linear feet of a 1/32" wide crack in an 8" thick concrete wall, with additional material allowance to ensure complete repair under real-world conditions.

DESIGN BASIS – TYPICAL COVERAGE ASSUMPTIONS

CrackGuard kits are sold as 10 linear-foot crack repair systems and include allowances for crack variability, waste, and blind-side conditions. Actual coverage depends on crack width, depth, and substrate conditions.



CORRECT
Mounded SRS-2100



Full anchorage and sealing around the port base

INCORRECT ❌
WIPED FLUSH PORT BASE



Insufficient material leads to leakage and poor anchorage

MOUNTING PORTS

Always wear protective eyewear. Wear gloves to aid in cleanup. Attach injection ports along the crack at spacing approximately equal to the thickness (depth) of the cracked member (Example: an 8" thick wall requires ports spaced approximately 8" apart). Dispense SRS-2100 Concrete Repair Paste and apply a small amount to the base of each injection port. Press the port firmly over the crack face. Do not block the port opening with epoxy. Seal around the outside edge of the port base to prevent leakage.



MAKING THE PROPER CONNECTIONS BETWEEN NOZZLE, TUBING, AND PORTS

Allow capping paste to cure completely according to the cure chart. Insert SRS-3000 Crack Injection Epoxy cartridge into the dispensing tool following product label instructions. Attach the mixing nozzle securely. Connect tubing to the nozzle outlet, then attach the opposite end to the first injection port. Begin injection at the lowest port for vertical cracks or at the widest portion of the crack for horizontal cracks.



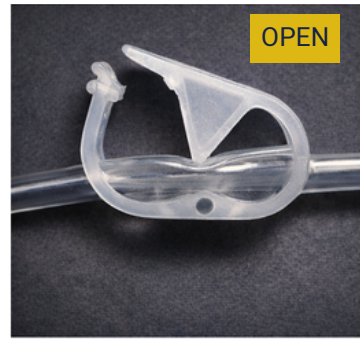
INJECTING THE CRACK

Inject epoxy until clean material flows from the next port. Remove tubing from the port while holding the port firmly to avoid disturbing the epoxy seal. Use the cap to plug the port. Attach tubing to the next port and repeat the injection process until epoxy exits the following port.

Repeat until finished. If epoxy does not appear at the next port, it is possible that epoxy may be running out of a portion of the crack that is not visible. This condition is referred to as a blind-side crack. For these types of applications, SRS-3000 Crack Injection Epoxy is recommended. This epoxy behaves as a low-viscosity liquid when under pressure and begins to gel as dispensing pressure is reduced. Allow injected epoxy to cure. Cure time is dependent upon substrate temperature as well as the epoxy material used. Refer to the cure chart on the cartridge. Allow SRS-2100 Concrete Repair Paste to fully cure.

NOTE

Ensure the flow control clip is in the OPEN position during dispensing and CLOSED when not in use.



OTHER CIRCUMSTANCES

It is possible to successfully inject epoxy into wet cracks with limited compromise of bond strength if certain procedures are followed. If the presence of water, unusual temperature conditions, or abnormal substrates such as brick or stone are encountered during a crack injection project, additional guidance should be obtained prior to proceeding. These instructions are intended to provide a general overview of crack injection procedures and are not intended as a complete manual for all conditions. Every effort has been made to accurately describe appropriate procedures; however, this document does not constitute a bond, warranty, or guarantee of work performed.



FINISHING THE INJECTION PROCESS

The crack is now fully repaired. To finish the process, the injection ports and epoxy cap are removed from the exposed crack face. This can be accomplished using a grinder. It is absolutely imperative to wear protective eyewear and to follow proper procedures for dust protection. Once the surface is ground smooth, the concrete may be coated, leaving a uniform surface appearance.

QUALITY CONTROL

It is critical that injected epoxy be properly proportioned and thoroughly mixed. The cartridge delivery system assists in ensuring proper mixing. If an air-powered dispensing tool is used, care must be taken not to exceed the regulated air pressure above the manufacturer's recommendations, as cartridge leakage may occur. The first material dispensed from the cartridge should be discarded to ensure both components are flowing evenly, as one component may precede the other during initial dispensing. SRS-3000 Crack Injection Epoxy formulations are available in larger cartridges or bulk containers for larger projects.

IMPORTANT SAFETY INFORMATION

IMPORTANT: Always wear safety glasses during crack injection procedures. **WARNING:** This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. **FIRST AID:** If skin contact occurs, wash immediately with warm, soapy water. If swallowed and conscious, drink 3-4 glasses of water or milk and seek medical attention immediately. In case of eye contact, flush immediately with clean water. **CAUTION:** Do not attempt to force material out of a hardened mixing nozzle. Use a new mixing nozzle to prevent cartridge rupture. If a leak occurs, discontinue use and replace the cartridge. Do not store or use near open flame or flammable materials. Keep out of reach of children.