

SURE INJECT (J-56)

High Mod, Low Viscosity Injection Epoxy

PRODUCT DESCRIPTION: Sure-Inject is a 100% solids, moisture tolerant, low viscosity epoxy adhesive. It is designed to be either gravity fed or pressure injected into concrete cracks for structural repair. Sure-Inject can be used to repair both dry and damp cracks and it meets ASTM C-881.

PURPOSE: Sure-Inject (J-56) is recommended for pressure injection and the gravity-feed of cracks in concrete, masonry and wood. Sure-inject can also be used to seal interior slabs and exterior above-grade slabs.

ADVANTAGES:

- High modules, high strength
- Low viscosity, deep penetration
- Moisture tolerant
- V.O.C. Compliant
- Packaged in cartridges and gallon units
- High chemical resistance

SPECIFICATIONS:

- Meets ASTM C-881, Types I, II, IV, V, Grade 1, Classes B & C
- Mix Ratio – 2:1 by volume
- Initial Color – Resin: yellow, Hardener: blue
- Final Color – Light green
- Viscosity – 160 cps
- Pot Life – 20 minutes (Long pot life available)
- Initial Cure – 24 hours
- Final Cure – 7 days
- Concrete Bond Strength – ASTM C-882 – 2,000 psi (13.8 MPa) at 14 days
- Compressive Strength – ASTM D-695 – 13,000 psi (89.6 MPa) at 7 days
14,200 psi (98. MPa) at 28 days
- Tensile Strength – ASTM D-638 – 7,400 psi (51 MPa) at 7 days
- Water Absorption – ASTM D-570 - .23%
- Shrinkage – ASTM D-2566 – passes test

APPLICATION INSTRUCTIONS:**APPLICATION INSTRUCTIONS:****Surface Preparation:**

Crack should be clean and sound. The crack can be dry or damp, but it should be free of standing water. Remove all dirt, oil, dust, paint, grease, water proofing materials, sealers and other foreign material from inside the crack that would prevent a good bond. The concrete crack should be cleaned by vacuum or clean compressed air.

Mixing and Installation:

Air and substrate temperature must be 40°F (4°C) and rising. First premix each component then mix two parts by volume of Part A with one part by volume of Part B for three minutes with a slow speed drill with a jiffy mixer or paddle. Mix only what can be used during the pot life.

Sure-Inject can be gravity fed into horizontal cracks that are not greater than 1/4" (.6 cm) wide. Be sure to seal the underside of the crack with Sure-Anchor Epoxy if the crack reflects through. Continue placing the epoxy until the crack is completely filled.

For pressure injection, first prepare the surfaces adjacent to the cracks to expose clean, sound concrete. The injection ports should be spaced from 8" (20.3 cm) to 36" (91.4 cm) apart depending on the crack width and the thickness of the member to be injected. Next, the cracks should be sealed at the surface with Sure-Anchor Epoxy from Dayton Superior at a paste width of 3" (7.6 cm). After the Sure-Anchor Epoxy has cured, inject Sure-Inject epoxy with pressurized dispensing equipment or use cartridges from Dayton Superior.

Lily Corp., out of Aurora, IL (Phone 630-892-0860), have tested the Sure-Inject epoxy and have approved its use with their pressurized dispensing equipment.

Sure-Inject cartridges are only designed for small crack repair projects with cracks at least 1/16" (1.6 mm) in width or larger. For large projects and/or crack widths less than 1/16" (1.6 mm), use Sure-Inject in 3 or 15 gallon (11.3 or 56.7 liter) units with pressurized dispensing equipment. For sealing slabs, spread neat Sure-Inject over the interior slab or above grade exterior slab. Allow the material to penetrate then remove any excess material to prevent a surface film.

APPROXIMATE COVERAGE:

231 cubic inches per gallon
(.001 cubic meters per liter)

PACKAGING:

15 fl. Oz. (.44 liter) cartridges
3 gallon (11.3 liter) and 15 gallon (56.7 liter) units

CLEAN UP:

Tools and Equipment: Clean up before the epoxy sets up. Use toluene, methyl ethyl ketone, lacquer solvent.

LIMITATIONS:

Do not thin with solvents. Do not inject cracks wider than 1/4" (.6 cm) without contacting Dayton Superior. At the beginning of the project take core samples to verify the satisfactory penetration of Sure-Inject epoxy into the crack. For applications with constant high temperatures (above 180°F or 82°C), contact Dayton Superior.

Caution, high temperatures will accelerate the setting time and cool temperatures will slow down the setting time. As a general rule, the pot life of the epoxy will be cut in half for each 10 to 15 degree increase in temperature above 75°F and the pot life will double for each 10 to 15 degree drop below 75°F.

WARNING/DANGER:

Component A – Prolonged or repeated exposure may cause eye or skin irritation. If contact occurs, wash immediately and seek medical help. Use safety glasses and wear protective rubber gloves. In case of ingestion, call a physician. Refer to Material Safety Data Sheet for additional information.

Component B – Contact with skin may cause severe burns. Wash immediately with soap and water. Avoid eye contact. If eye contact occurs, flush immediately with water. Product is a strong sensitizer. Avoid breathing vapors. Use safety glasses and wear protective rubber gloves. In case of ingestion, call a physician. Refer to Material Safety Data Sheet for additional information.

TECHNICAL SERVICES:

Call out technical staff for assistance at:

1-800-745-3707

1-815-732-3136

or

Fax: 1-815-732-2866

Also Dayton Superior's coast-to-coast network of distributors and dealers are well informed on capability and application procedures.

WARRANTY Dayton Superior Corporation ("the Company") will refund the price of or replace, at its election, any product which it finds to be defective provided the product has been used properly. EXCEPT AS EXPRESSLY STATED ABOVE, THE COMPANY MAKES NO WARRANTY OF MERCHANTABILITY AND NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE NOR DOES IT MAKE ANY WARRANTY, EXPRESS OR IMPLIED, OF ANY NATURE WHATSOEVER WITH RESPECT TO THE PRODUCT OR THE USE THEREOF, BY WAY OF ILLUSTRATION AND NO LIMITATION. IN NO EVENT SHALL THE COMPANY BE LIABLE FOR DELAY CAUSED BY DEFECTS, FOR LOSS OF USE, FOR INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT ITS WRITTEN CONSENT. THE FOREGOING IS THE FULL EXTENT OF THE RESPONSIBILITY OF THE COMPANY EVEN THOUGH THE COMPANY MAY HAVE BEEN NEGLIGENT.

**Distributed By:**

Dayton Superior Chemical Division
Operations Office & Plant
402 South First Street,
Oregon, IL, 61061
Telephone (815) 732-3136

"FOR INDUSTRIAL USE ONLY"