

SURE-INJECT™ (J-56)

HIGH MODULUS, LOW VISCOSITY, EPOXY INJECTION RESIN, V.O.C. COMPLIANT

PRODUCT DESCRIPTION

Sure-Inject (J-56) is a 100% solids, high modulus, moisture tolerant, low viscosity epoxy adhesive for gravity feed or pressure injection of cracks in concrete. Sure-Inject (J-56) meets the requirements of ASTM C-881.

PURPOSE

The primary use of the Sure-Inject (J-56) is for pressure injection and gravity feed crack repair in concrete and masonry. Sure-Inject (J-56) can also be used to seal interior slabs and exterior above-grade slabs.

ADVANTAGES

- High modulus, high strength adhesive meeting ASTM C-881 requirements
- Low viscosity, for 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, Part A to Part B by volume
- Color (mixed)- Amber
- Viscosity – 518 cps
- Gel times – 60 gm mass - 28 Minutes @ 73°F (23°C)
- Shelf life – 2 years in unopened containers
- Compressive yield strength – ASTM D-695: 12,385 psi (85.4 MPa) @ 7 days
- Compressive Modulus – ASTM D-695: 267,586 psi (1845.0 MPa)
- Concrete bond strength – ASTM C-882 :
 - 2 days 2,380 psi (16.4 MPa);
 - 14 days 4233 psi (29.2 MPa)
- Tensile Strength – ASTM D-638 - 7,168 psi (49.4 MPa)
- Elongation at break – ASTM D-638: 2.3%
- Water Absorption – ASTM D-570: 0.84%

APPLICATION INSTRUCTIONS

Cracks to be bonded must be clean and sound. Remove all dirt, grease, oil, and other foreign material that may prevent a good bond. The crack may be damp or dry, but free of standing water. Use clean, oil free, compressed air to blow out any remaining dust or debris prior to installation.

Air, material, and surface temperature must be 40°F (4°C) and rising prior to mixing or installation. Premix each component separately, then mix two parts by volume of Part A with one part by volume of Part B for three minutes with a low speed (< 450 rpm) drill motor using a jiffy mixer or paddle. Mix only as much material as can be used within the pot life.

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 crack should be sealed at the surface with Sure Anchor epoxy gel (J-50) or (J-51) at a paste width of 1.5" (3.8 cm) on each side of the crack. After the Sure-Anchored epoxy gel has cured, inject Sure-Inject (J-56) with pressurized dispensing equipment or use cartridges from Dayton Superior. Do not install ports at the extremities of fine cracks as they feather to disappearance, install a terminal port approximately 4" from the end. Narrow cracks fill quicker from a wider adjacent crack segment than from a surface port. Sure-Inject (J-56) cartridges are only designed for small 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" (1.6mm), use Sure-Inject (J-56) in 1.5 or 3 gal. (5.68 or 11.36 L) units with pressurized dispensing equipment.

For sealing slabs, spread the Sure-Inject (J-56) over the interior slab or above grade exterior slab. Allow material to penetrate, then remove any excess material to prevent the formation of a surface film.

CURE TIME

At 73°F (23°C) gel time is 30 minutes. Attains 80% of ultimate strength in 24 hours. Final cure @ 7 days.

PACKAGING

16.5 fl.oz. (0.49L) cartridges, 1.5 gal.(5.68L) and 3 gal. (11.36L) units

CLEAN-UP

Tools and Equipment: Clean before the epoxy sets up. Use Xylene or Dayton Superior Citrus Peel (J-48).

LIMITATIONS

Always test a small amount of Sure-Inject (J-56) epoxy to

Refer to www.daytonsuperior.com for latest Technical Data Sheet and MSDS
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insure that the product is mixed properly and thoroughly and that the material will harden properly before proceeding with the installation. Shelf Life is 2 years from date of manufacture.

Do not inject cracks wider than 1/4" (6.4 mm) without contacting Dayton Superior. At the start of each project, it is recommended to take core samples to verify the satisfactory penetration of Sure-Inject (J-56) epoxy into the crack. Do not thin with any solvents. Surface, ambient air, and material temperatures must be 40°F (4°C) or above. Do not expose stored or uncured product to cold or freezing temperatures below 35°F (1°C) for any length of time.

Note: High temperatures will accelerate the setting time. As a general rule, the gel time of the epoxy will be cut in half for each 10° to 15° increase in temperature above 75°F (24°C).

WARNING

- Use with adequate ventilation
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, CALL A PHYSICIAN immediately.
- DO NOT induce vomiting

Component A – Prolonged or repeated exposure may cause eye/ skin irritation. If contact occurs, wash immediately and seek medical help as needed. Wear protective clothing, gloves and goggles.

Component B – Avoid skin and eye contact. Contact with skin may cause severe burns. If skin contact occurs, wash immediately with soap and water and seek medical help as needed. If eye contact occurs, flush immediately with clean water and seek medical help as needed. Wear protective clothing, gloves, and goggles. This product may be a strong sensitizer. Avoid inhalation of vapors. Use safety glasses and wear protective rubber gloves. Read MSDS before using product.

MANUFACTURER

Dayton Superior Corporation
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Miamisburg, OH 45342
Customer Service: 888-977-9600
Technical Services: 866-329-8724
Website: www.daytonsuperior.com

WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.



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