



HIGHWAY • AIRPORT • BRIDGE

SILSPEC® DECKSEAL Penetrating Epoxy Healer Sealer

DESCRIPTION

SILSPEC® DECKSEAL is a 75% solids highly penetrating, two component epoxy healer/sealer which when applied to cracked bridge decks or elevated concrete, will structurally seal the cracks against moisture and chloride ion intrusion.

USE

Bridge decks
Parking decks
Floors
Columns and beams in splash zone areas
Consolidation of porous & dusting floors

FEATURES

- ◆ Deep penetrating
- ◆ Structurally seals cracks against moisture and chloride ion penetration
- ◆ Rapid cure time allows traffic to reopen in four hours

PROPERTIES

Viscosity: 40cps
Solids: 75%
Color: Clear Amber
Gel Time at 72°F (22°C)- In 6 gram mass: 1 hr
In thin film: 20 min
Bond Strength: (ASTM C-882) 3,000 psi (20.7 MPa)
Tensile Elongation: (ASTM D-638) 50%
Tensile Strength: (ASTM D-638) 2,500psi (17.2 MPa)
Absorption: (ASTM D-570) 0.2%

VOC

SILSPEC® DECKSEAL has a VOC content of <250g/L. Compliant with all US VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

STORAGE

Store material between 40°-95°F (5°-35°C).
Shelf life of properly stored, unopened containers is 12 months.

PACKAGING

2 gal/7.6L units (2- 1 gal cans) 10 gal/37.9L (2- 5 gal pails)
110 gal/416.4L units (2-55 gal drums)

ESTIMATING GUIDE

Broom Finish: 65 to 100 sq ft/gal (6.0 to 9.3 sq m/L)
Steel Trowel Finish: 150 to 200 sq ft/gal (13.9 to 18.6 sq m/L)

APPLICATION PROCEEDURE

SURFACE PREPARATION: Minimum age of concrete to be 28 days without manufacturers approval. Surface must be clean and sound. Remove existing coatings, oil, grease, laitance, impregnations, waxes and foreign particles. Repair damaged surfaces if required.

PREPARATION WORK:

Concrete:

Sandblast- Clean surface to remove contaminating materials. Follow mechanical cleaning with vacuum cleaning or blow surface with oil/water free compressed air. Equipment should have oil/water separators installed.
Waterblast- Clean surface to remove contaminating material. For maximum penetration, deck should be allowed to dry a minimum of 48 hours.

Concrete surface should be clean, dry and frost free for optimal results. Moisture will prevent complete penetration. Typical application rate is 90-100 sq ft/gal (Abrasive blast cleaning and mechanical removal methods are recommended. Remove all standing water and dust with clean, oil free, compressed air prior to installation.

Steel:

Sandblast to white metal finish.

Mixing: Condition material to 65°-85°F (18°-29°C) before using. Premix each component separately then Place 1 part by volume of component A and 1 part by volume of component B into a clean pail. Mix thoroughly for 3 minutes with a low speed drill (400-600 rpm) until thoroughly blended. Mix only what can be used within the pot life. Air, material and surface temperature must be 50°F (10°C) and rising prior to mixing or installation.

Placement: Within 5 minutes of mixing pre-treat larger cracks then flood-coat SILSPEC® DECKSEAL onto bridge deck. Immediately distribute evenly and work into concrete for a minimum of 5 minutes for maximum penetration. Keep ponding DECKSEAL into cracks until refusal. Remove all excess with a squeegee on smooth surfaces and a broom on textured surfaces. Surface should appear damp but with no film build-up or ponding prior to broadcast of the sand. Blow-off excess sand after fully cured before opening to traffic.

Alternate Installation Method: SILSPEC® DECKSEAL can be mixed in small batches and used with squeeze bottles to treat individual cracks in bridge decks or other elevated structures.

CLEAN UP

Clean tools and equipment immediately after use with Xylene or a citrus cleaner. Cured material must be mechanically removed.
CAUTION- Xylene IS FLAMMABLE and all safety codes and regulations governing its use must be observed.

MATERIAL SPILL

Collect with absorbent material. Dispose of in accordance with local, state and federal disposal regulations.

FOR CHEMICAL EMERGENCY CALL

1-800-842-9300

24 hours per day, 7 days per week.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

Apply to dry and fully cured (28 days) concrete only.

Do not thin with solvents.

Surface, ambient air and material must 50F (10C) or above.

Do not expose stored or uncured product to cold or freezing temperatures below 35°F (2°C) for any length of time.

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



800-888-8909 • Fax 918-582-7510 • www.ssicm.com

CONTACT

Contact SSI for further information or installation instructions.

PRECAUTIONS

It is the users responsibility to familiarize themselves with all safety precautions prior to use. A product SDS is provided upon request by contacting SSI at (800)888-8909.


- ◆ Component A– Irritant
- ◆ Component B– Corrosive
- ◆ Product is a strong sensitizer
- ◆ Use with adequate ventilation
- ◆ Wear protective clothing, gloves and eye protection (Goggles, Safety Glasses and/or Face Shield)
- ◆ Keep out of reach of children
- ◆ Do not take internally
- ◆ In case of ingestion, seek medical help immediately
- ◆ May cause skin irritation upon contact, especially prolonged or repeated. 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
- ◆ Dispose of waste material in accordance with local, state and federal requirements
- ◆ Cured epoxy resins are innocuous

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For Purchase, contact SSI at the following locations:

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