

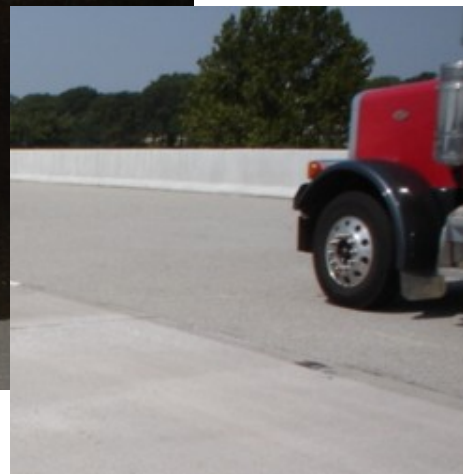
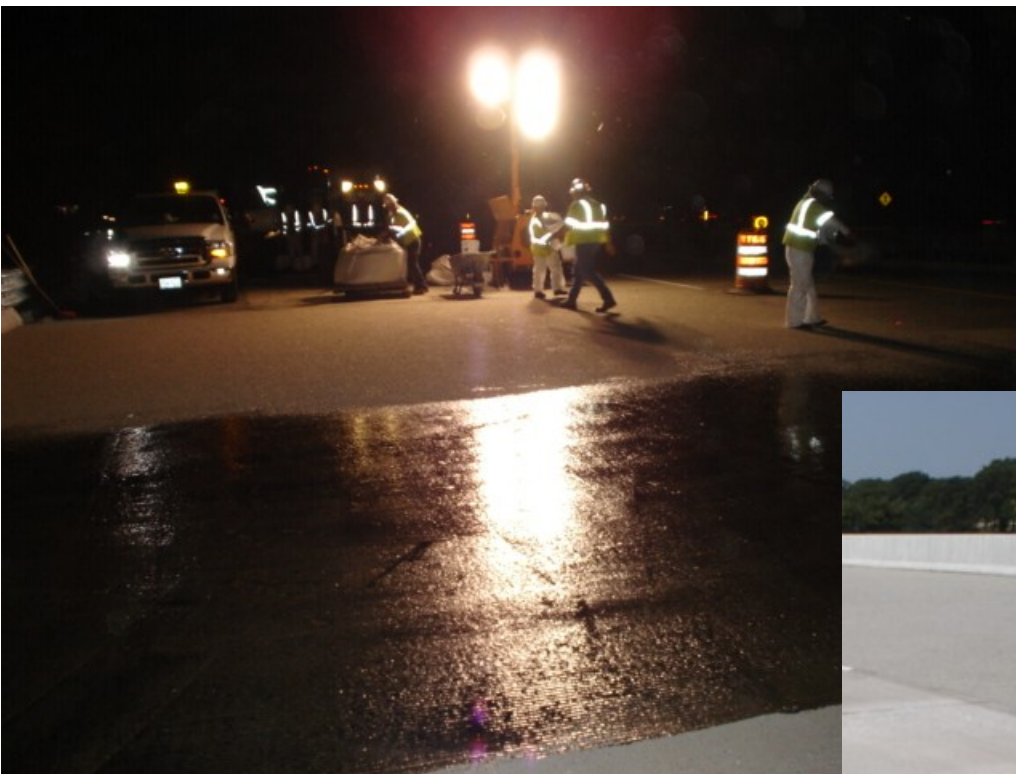


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RE-DECK *Bridge and Pavement Wearing Course*

- Complies with ASTM C881, Type III, Grade 1, Classes B & C
- Excellent Bond Strength
- Low Modulus
- Low Viscosity
- High Early Strength
- Easy to Mix 1:1 Ratio
- Moisture Insensitive
- Non-Flammable
- Light-Weight
- Fast Application
- Environmentally Friendly
- Short Lane Closure Time

Keep traffic moving with SSI RE-DECK!



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RE-DECK *Bridge and Pavement Wearing Course*

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Product Description

SSI RE-DECK is a solvent-free, moisture insensitive, 100% solids, low modulus, two component urethane-epoxy bonding agent. RE-DECK meets all requirements of ASTM-C-881 Type III, Grade 1, Classes B & C.

Excellent for use as binder for skid-resistant overlays on concrete bridges and elevated slabs.

USES

- Bonding skid-resistant overlays to bridges and elevated slabs
- Patching concrete as epoxy mortar

Properties

RESIN PROPERTIES		
LABORATORY TESTS	RESULTS	ASTM C 881 SPECIFICATIONS
Mix Ratio D-695 Compression Modulus D-638 Tensile Strength D-638 Tensile Elongation C-882 Bond Strength (14 day cure) D-570 Absorption C-881 Brookfield Vis. RV3 @ 20rpm D-2240 Shore D Hardness C-883 Shrinkage C-884 Thermal Compatibility AASHTO T-222 Chloride Ion Permeability	1 : 1 by volume 65,000 psi 2,500 psi 50% 3,000 psi 0.20% 1,500 cps 70 Negligible ¹ Pass 0.9 coulombs	None 130,000 maximum None 30% minimum 1,500 psi minimum 1.0% maximum 2,000 cps maximum None Pass None None
GROUT PROPERTIES		
Sand to Resin– 3.5 : 1 by volume		
C-579 ² Compressive Strength 3 hrs. C-579 ² Compressive Strength 24 hrs. C-579 ² Compressive Strength 48 hrs. (Moist Cure)	1,500 psi 7,000 psi 7,000 psi	N/A N/A N/A

¹– Too small to test

²– C-579 Method B with Plastic

Packaging

2 gal / 3.8L units (2– 1 gal cans)

10 gal / 37.9L units (2– 5 gal pails)

110 gal / 416.4L units (2– 55 gal drums)

Coverage

MINIMUM EPOXY & AGGREGATE COVERAGE RATES		
	EPOXY RATE	AGGREGATE RATE
COURSE 1	1 gal / 40 sq ft minimum (1 L / m ²)	10 lbs / sq yd (5.4 kg / m ²)
COURSE 2	1 gal / 20 sq ft minimum (2 L / m ²)	14 lbs / sq yd (7.6 kg / m ²)

Application for Bonding Skid-Resistant Overlays

Step 1. Repair delaminations, potholes, and cracks with SSI FLEXPATCH.

Step 2. RE-DECK must be applied to clean, dry surface. Clean surface by milling, shotblasting, or sandblasting to remove all contaminants. This cleaning shall produce a surface relief equal to the International Concrete Repair Institute (ICR) Surface

Preparation Level 6. Remove dust and debris by blowing off with oil-free compressed air.

Step 3. Mechanically mix component A with component B at 1:1 ratio by volume with Jiffy type mixer and low speed variable drill at 300 rpm for a minimum of 3 minutes. Mix only the quantity that can be used within its working time.

Step 4. Apply neat RE-DECK® by notched squeegee at the specified rate.

Step 5. Broadcast select aggregate to refusal. The aggregate should be angular, hard, durable and free of dirt, clay, asphalt, and other foreign or organic materials. Aggregate shall contain less than 0.2% moisture. The Los Angeles Abrasion percent wear shall be limited to a maximum of 40% after 500 revolutions when tested in accordance with AASHTO T 96.

Step 6. After initial cure of first course, blow off excess aggregate with clean, oil-free air. Do NOT open to traffic.

Step 7. Apply second course of epoxy and aggregate. Allow to cure following the table below. Remove excess aggregate before opening to traffic.

MINIMUM CURING TIME OF RE-DECK						
	Average Temperatures of Overlay Components & Substrate					
	60-64°F 18-18°C	65-69°F 19-21°C	70-74°F 22-23°C	75-79°F 24-26°C	80-84°F 27-29°C	85+°F 29+°C
Min. Cure Time COURSE 1	4 hrs	3 hrs	2.5 hrs	2 hrs	1.5 hrs	1 hr
Min. Cure Time COURSE 2	6-5 hrs	5 hrs	4 hrs	3 hrs	3 hrs	3 hrs

Limitations

- Minimum age of concrete must be 28 days prior to applying RE-DECK as an overlay without manufacturers approval.
- Not for use on exterior slabs on grade subject to freezing without manufacturers approval.
- Working time is temperature and mass dependant– approximately 15 minutes at 70°F.
- Consult SSI technical assistance for further details.

First Aid

EYE CONTACT: Flush immediately with water for at least 15 minutes. Contact physician immediately.

RESPIRATORY CONTACT: Remove person to fresh air.

SKIN CONTACT: Remove any contaminated clothing. Remove polymer immediately with a clean, dry towel and wash skin thoroughly with soap and water. Solvents should not be as they carry the irritant into the skin.

CURED POLYMER IS INNOCUOUS.

Clean-up

EQUIPMENT: Uncured material can be removed with CITRUS CLEANER or other approved solvent. Cured material can only be removed mechanically.

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

Cautions

Component A: Irritant
Component B: Corrosive

Product is a strong sensitizer. Use of safety goggles and chemical resistant gloves is recommended.

Use of a NIOSH/MSHA organic vapor respirator is recommended if ventilation is inadequate.

Avoid breathing vapors.

Avoid skin contact.

Material is a vapor barrier after curing.

Do not thin with solvents.

RE-DECK *Bridge and Pavement Wearing Course* is part of the SSI Family of transportation products:

**SILSPEC® 900PNS • SILSPEC® 2000 • SILSPEC® FLEXPATCH • SILSPEC® RE-DECK • SILSPEC® DECKSEAL
SILSPEC® SES • SILSPEC® SSS**



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800-888-8909 ♦ www.ssicm.com

Fax: 918-582-7510

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