

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 used 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. Flush area with water. 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

- Complies with AASHTO-AGC-ARTBA Taskforce 34 Guidelines
- Complies with ASTM-C-881-90, Type III, 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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Serving the Companies that Build America



RE-DECK®

Product Description

SSI RE-DECK® is a solvent-free, moisture insensitiive, 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	1 : 1 by volume	None
D-695 Compressive Modulus	65,000 psi	130,000 maximum
D-638 Tensile Strength	2500 psi	None
D-638 Tensile Elongation	50%	30% minimim
C-882 Bond Strength (14 day cure)	3000 psi	1,500 psi minimum
D-570 Absorption	0.20%	1.0% max.
C-881 Brookfield Visc. RV3 @20rpm	1500 cps	2000 cps maximum
D-2240 Shore D Hardness	70	None
C-883 Shrinkage	Negligible ¹	Pass
C-884 Thermal Compatibility	Pass	None
AASHTO T-277 Chloride Ion Permeability	0.9 coulombs	None
GROUT PROPERTIES		
Sand to Resin – 3.5 : 1 by volume		
C-579 ² Compressive Strength 3 hrs	1500 psi	N/A
C-579 ² Compressive Strength 24 hrs	7000 psi	N/A
C-579 ² Compressive Strength 48 hrs (Moist Cure)	7000 psi	N/A

1 - Too small to test

2 - C-579 Method B with Plastic Inserts

Packaging

1 gal / 3.8 L units (2 – .5 gal cans) 10 gal / 37.9 L units (2 – 5 gal pails)
 2 gal / 7.6 L units (2 – 1 gal cans) 110 gal / 416.4 L 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)

*COURSE 1 application will vary with profile of deck from 20 to 40 SF / Gal.

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. 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 TIMES OF RE-DECK®						
	Average Temperatures of Overlay Components & Substrate					
	60 - 64°F 16 - 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 manufacturer's approval.
- Not for use on exterior slabs on grade subject to freezing without manufacturer's approval.
- Working time is temperature and mass dependent – approximately 15 minutes at 70°F.
- Consult SSI technical assistance for further details.