



# Bridge Deck Membrane

## PRODUCT DESCRIPTION

Bridge Deck Membrane is a rapid setting, 100% solids, two-component polymer product. Bridge Deck Membrane is used as a waterproof membrane with dielectric properties for protection against typical corrosion conditions that exist on many rail and DOT structures. Bridge Deck Membrane can be applied in temperatures down to -20°F without effect on setup time or curing, and can be applied at specified thickness in one continuous application. Bridge Deck Membrane can be sprayed horizontally, vertically and overhead at any thickness.

## USES

Bridge Deck Membrane is a superior high strength elastomeric coating designed for protection against water, salts, chemicals and other corrosive effects on bridge and elevated deck structures.

## ADVANTAGES

- Environmentally Friendly, 100% Solids, No VOC's.
- Cures in seconds, even in temperatures well below freezing.
- Passes ASTM C836-00 for 1/8" crack bridging at 80 mils.
- Meets AREMA Chapter 29, Part 2 for Cold Liquid-Applied Elastomeric Membranes.
- Provides continuous seamless waterproofing membrane.
- Can be used on irregular surfaces.
- Can accept asphalt overlays within one hour.
- Can accept ballast within one hour.
- Made in America.

## PHYSICAL PROPERTIES

Solids Content		100%
Shore Hardness	ASTM D 2240	50 D
Elongation	ASTM D 638	>250%
Tensile Strength, psi	ASTM D 638	>2,000
Tear Strength, pli, Die C	ASTM D 624	390
Tabor Abrasion, mg. Loss (1000 gm, 1000 rev, H-18)	ASTM D 4060	250
Moisture Vapor Transmission	ASTM E 96	<0.025 perms
Gel Time		<10 Seconds
Tack Free		<30 Seconds
Open to Light Traffic		1 Hour
Crack Bridging Test (80 Mils - 1/8" Opening @ -15°F, 25 cycles)	ASTM C 836-00	Pass
Electrical Volume Resistivity	ASTM D 257-99	$2.0 \times 10^{13}$ ohm-cm
Adhesion to Concrete, psi	ASTM D 4541	>150
Adhesion to Steel, psi	ASTM D 4541	>300

## PACKAGING

- One Hundred Six Gallon Kit: 53 gallons of 'A' side and 53 gallons of 'B' side. Drum containers filled by weight, volume is closely approximate.
- Ten Gallon Kit: 5 gallons of 'A' side and 5 gallons of 'B' side.

## MIXING

- Machine mix only. Use 1:1 plural component heated pump with impingement mix spray guns. Contact Bridge Preservation for further information.

## SURFACE PREPARATION

**Concrete Surfaces:** Provide clean sound concrete substrate. Repair spalls and other defects with approved patching material. Prepare concrete surfaces to SSPC SP13/NACE No 6. Surface Preparation of Concrete.

**Metal Surfaces:** Provide clean sound metal substrate. Sand blast metal to remove laitance and other contamination and provide suitable 3-5 mil blast profile. Prepare metal surfaces to SSPC-SP10 Near White Blast or better. Test prepared surfaces using Elcometer adhesion testing (ASTM D 4541).

## APPLICATION

Regard Bridge Preservation specifications for Bridge Deck Membrane for detailed preparation and installation procedures.

## SHELF LIFE

One year, in original, unopened factory containers, under normal storage conditions of 55°F to 95°F.

## SAFETY

Not R.C.R.A. or DOT regulated. Read Material Safety Data Sheet before using. Seal container tightly after use to prevent introduction of moisture laden air.

## WARRANTY

**Bridge Preservation** will refund the price of or replace, at its election, product 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, expressed or implied, of any nature whatsoever with respect to the product or its use. 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.