



# PRODUCT DATA SHEET 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 C1305 for 1/8" crack bridging at 80 mils.
- Meets AREMA Chapter 8, Part 29.9.10 for Cold Liquid-Applied Elastomeric Membranes.
- Provides a 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%
Gel Time		<10 Seconds
Tack Free		<30 Seconds
Open to Light Traffic		1 Hour
Shore Hardness	ASTM D 2240	>40D
Elongation	ASTM D 638	>250%
Tensile Strength	ASTM D 638	>2,000 psi
Tear Strength (Die C)	ASTM D 624	>300 pli
Tabor Abrasion, mg. Loss (1000 gm, 1000 rev, H-18)	ASTM D 4060	<250
Low Temperature Crack Bridging (80 mils – 1/8" Opening @ -15°F)	ASTM C 1305	Pass after 40 cycles
Adhesion to Concrete	ASTM D 7234	>300 psi or failure in concrete
Adhesion to Steel	ASTM D 4541	>300 psi
Resistance to Penetration	ASTM D 1883 (Modified per AREMA Ch. 8, Part 29.10.3.3)	Pass
North American Ballast Impact Test	9.2 - 28.1 kips, 2,000,000 Cycles	Pass

*The value ranges stated in this Technical Data Sheet are based on system processing under laboratory conditions. Equipment configurations and/or field application conditions may produce variances in final system values.*

*Bond strength to concrete is performed on laboratory prepared substrates. The existing condition of project specific concrete will vary and may produce results lower than 300 psi. Refer to contract document requirements and/or PPG's published documentation for additional information.*

## PACKAGING

---

- Five-Hundred Thirty Gallon Kit: 265 gallons of 'A' side and 265 gallons of 'B' side. Tote containers filled by weight, volume is closely approximate.
- 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.
- 10 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 and achieve a Concrete Surface Profile of at least 3 measured using ICRI CSP chips. For concrete surfaces at or below 32°F, additional preparation and/or testing may be required to ensure proper adhesion. Contact Bridge Preservation for further information.
- Metal Surfaces: Provide clean, sound metal substrate. Sand blast metal to remove scaling and other contamination and provide a suitable 3-5 mil blast profile. Prepare metal surfaces to SSPC-SP10/NACE No. 2 Near White Blast Cleaning and achieve a 3-5 mil blast profile measured using a Surface Profile Gage.

## APPLICATION

---

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

## SHELF LIFE

---

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

## STORAGE

---

Store in a clean, dry, protected location between 55°F and 95°F. Protect from direct sunlight. Avoid freezing.

## 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 or replace, at its election, product it finds to be defective provided the product has been stored and 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.