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# TECHNICAL BULLETIN

## SynDeck® Waterproof Membrane (SS2102)

### Description

SynDeck® Waterproof Membrane (SS2102) is a 100% solids two component waterproofing product that has excellent chemical and moisture resistance. SS2102 is typically specified as a resilient water barrier applied to carbon steel, concrete, masonry, composites, and wood surfaces. SS2102 is a user-friendly product, which has good leveling properties and is 0-VOC.

### Applications

SynDeck® Waterproof Membrane (SS2102) is applied to properly prepared concrete, plaster, wood, FRP, GFRC, metals and utilized as a resilient protective coat over steel floors in marine environments. Typical applications include balconies, decks, commercial cement floors, facades, concrete storage tank exteriors, steel and concrete bridges, and many other surfaces requiring abrasion resistance, waterproofing, and chemical resistance. When applying over a substrate other than steel, a sealer coat is required.

### Performance

VOC	0 g/l Meets Final SCAQMD Rule 1113 (2008)
Tensile Strength	1250 psi
Chemical Resistance	Splash & Spillage of Aromatic Hydrocarbons, Ketones, Dilute Organic Acids, Alkalis, Spray Paint, Salt Spray.
Tensile Elongation	350
Excellent Leveling & Flow	Brush, Roll, Squeegee & Spray Applications
Tear Strength	270 (Die C, pli)
Hardness Shore A	90
O-T Bend Adhesion	Pass ASTM D-4145-90

### Physical Characteristics

Volume Solids	100%
Packaging	2 Gal. & 10 Gal. Kits
Flash Point	>200°F. – clear and pigmented
Gloss	Medium – clear and pigmented
Mix Ratio	1:1 (A:B) by volume.
Pot Life	20 minutes at 70°F, 50% RH
Dry Time	@70°F. 50% RH 5 hours - Touch 14 hours - Foot traffic 24 hours - Heavy traffic 72 hours - Full cure
Recoat Intervals	70°F – min. 6-hours, max. 24-hours. 90°F – min. 3-hours, max. 12-hours.
Film Thickness	10-40 mils per coat
Coverage	40-160 ft <sup>2</sup> /gallon per coat
Thinning	None Required. Use Acetone for clean up.
Primers	Self priming
Colors	Gray



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#### Surface Preparation

##### Concrete –

All visible oil, grease, sludge, and any other contaminants shall be removed prior to any abrasive surface preparation, acid etching and water washing. Surface shall be cured, dry and free from alkali stain and laitance. Blas-Trac or other approved mechanical method to achieve a 60-80 grit profile for long term adhesion and non-slip surface on floors.

##### Metals –

All visible oil, grease, sludge, and any other contaminants shall be removed prior to any abrasive surface preparation. Prepare carbon steel in accordance with SSPC-SP11 surface profile. Small surfaces may be prepared in accordance with SSPC-SP2 and SSPC-SP3 followed by SSPC-SP1.

##### Wood –

Surface must be completely dry, free of any contaminants, mildew and organic matter.

##### Existing Coatings –

High-pressure wash off any chalk, remove all visible grease, oil, dirt or any other deleterious matter. Scarify surface for increased cohesion. Spot prime bare surfaces prior to full application coat.

#### Application Methods

##### Mixing –

Mix “B” component until a homogeneous mixture is obtained. Next, pour “A” component into “B” component and mix slowly (500-1,000 rpm) using a mechanical “jiffy mixer” for 1-2 minutes.

##### Brush –

Use top-quality nylon bristle brush for best film properties.

##### Roller –

Lambswool or similar cover with phenolic core, ¼ - ½ inch nap thickness.

##### Environment –

Apply between 50°F. – 100°F. and 5°F. above dewpoint.

##### Safety –

Areas such as pool decks, sloped driveways, or other surfaces subjected to water may become slippery if coated with SynDeck Series (SS2102). If you must seal these surfaces, keep the sealer film build-up to a minimum. In severe cases a non-slip material such as fine glass beads, washed silica sand and other aggregates may be broadcasted between coating applications.

**CONTAINS POLYOL AND ISOCYANATE RESINS! DO NOT USE IF YOU HAVE AN ADVERSE REACTION TO THESE CHEMICALS!**

Contact EPMAR for any additional application information.

#### Warranty

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of this product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product, which is proved to be defective. Any claim of defective product must be received in writing within one (1) year from date of shipment. Neither seller nor manufacturer assumes any liability for injury, loss, or damage resulting from use of this product.

**Service is part of our formula**

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