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# TECHNICAL BULLETIN

## SynDeck® Lightweight Polymer Underlayment (SS1280)

### Description

SynDeck® Lightweight Polymer Underlayment (SS1280) is 100% solids two-component waterproofing underlayment eliminating the need for an additional water barrier. It has excellent chemical and moisture resistance. SS1280 is an excellent resilient water barrier applied to metal substrates. It is a troweled product, which has good leveling/flow properties and is 0-VOC.

### Applications

SynDeck® Lightweight Polymer Underlayment (SS1280) is applied to properly prepared metals and utilized as a resilient protective coat over metal decks in marine environments where fairing and leveling of the substrate is required. SS1280 is a one step process that does not require a bond coat or waterproof membrane. It is lightweight and is an especially good underlayment in wet spaces or where other contaminants may be evident. SS1280 is an excellent underlayment for surfaces requiring abrasion resistance, resilience waterproofing, and chemical resistance.

### Performance

Mil PRF 3135 G	Type 1, Class 2 and Type 2 Class 2
VOC	0 g/l Meets Final SCAQMD Rule 1113 (2008)
Tensile Strength	1250 psi
Chemical Resistance	JP-5, AFFF, Sulfuric Acid, Hydrochloric Acid, oil, salt water and distilled water
Excellent Leveling & Flow	Troweled application, roll or brush
Tear Strength	270 (Die C, pli)
Hardness Shore	Shore A-99, Shore D-44

### Physical Characteristics

Volume Solids	100%
Packaging	1-Gal Premixed Kits
Flash Point	>200°F.
Gloss	Medium Gloss
Mix Ratio	Pre-measured Kits
Pot Life	@70°F. 50% RH, 15-minutes
Dry Time	@70°F. 50% RH, 5 hours to 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	50-250 mils per coat
Coverage	6-32 ft <sup>2</sup> per gallon per coat
Colors	Gray
Thinning	None. Use Acetone/Alcohol for clean up.



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#### Surface Preparation

##### Metals –

All visible oil, grease, sludge, and any other contaminants shall be removed prior to any surface preparation in accordance with SSPC-SP1. Power Tool Clean deck surfaces in accordance with SSPC-SP11. Prepared surface may be prime coated with any approved Primer Coating. SS1280 may be applied without primer. SS1280 has passed the corrosion test requirements of MIL PRF 3135G without the application of primer.

##### Other –

Ensure surfaces are free of contaminants and dust or dirt. A Bond Coat or Seal Coat may be required on some surfaces. A pre-test is recommended to ensure adhesion and surface smoothness.

#### 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 2-3 minutes, making sure to scrape the sides of the container. In the mixing process take care not to introduce excessive air into the material and achieve a homogeneous mixture with no swirls. It is very important to achieve a good mechanical mix. In hand mixing, blistering of the top surface may be observed, since satisfactory mixing may not have been achieved.

##### Trowel –

Use top-quality flat or notched trowel. A notched trowel may aid in air release. SS1280 may also be applied with brush or roller in low build application.

##### Environment –

Apply between 50°F. – 100°F. and 5°F. above dewpoint. NOTE: At elevated temperatures, the product pot life will decrease and a faster cure time will be evident.

##### Safety -

Surfaces subjected to water, oil or grease may become slippery.

**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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