



Epoxy &
Polyurethane
Manufacturing and
Research

TECHNICAL BULLETIN
SynDeck® Clear Top Coat/Color Coat
SS5100 Series
Qualified to IMO-FTP
Parts 2 and 5

Description

SynDeck® Clear Top Coat/Color Coat SS5100 Series is a top quality abrasion resistant amine cured epoxy coating that offers 0-VOC, has excellent adhesion, is user friendly, and cures to a resilient high-gloss film. SS5100 Series can be applied over deck underlayments and properly prepared existing epoxy coatings, resulting in a new high gloss finish in one thin coat. SS5100 Series has very low odor, superior clarity and is self-leveling. SS5100 Series can be applied at lower temperatures (50°F.) with no blushing and is dry for foot traffic overnight.

Applications

SynDeck® Clear Top Coat/Color Coat SS5100 Series is applied to properly prepared marine decking and substrates where IMO Certification is required.

Performance

• Meets the flame spread requirements for deck coatings as specified in Parts 2 and 5 of Annex 1 of the IMO Code.	
VOC	0 g/l
Tensile Strength	8,700 psi ASTM C-307 (epoxy component)
Adhesion	Excellent >1,000 lbs. psi ASTM D-4541
Chemical Resistance	Splash, Spillage & 72-Hour Containment of Aromatic Hydrocarbons, Ketones, Dilute Organic Acids, Alkalis
Tensile Elongation	3.1% (epoxy component)
Ultimate Flexural Strength	16,100 psi (epoxy component)
Compressive Strength	13,800 psi ASTM C-579 (epoxy component)
Hardness Shore D	88 (epoxy component)

Physical Characteristics

Packaging	1 gal. premeasured kit in convenient 1-gallon plastic pails for mixing
Flash Point	>200°F.
Gloss	90 minimum @ 60° specular
Mix Ratio	2:1 (A:B) by volume.
Pot Life	45 minutes at 70°F (100 gram mass)
Dry Time	@70°F. 50% RH Recoat in 12-16 hours. Dry for walking traffic in 16 Hours. Full cure in 7 days.
Recoat Intervals	50°F – min. 16-hours, max. 72-hours 70°F – min. 8-hours, max. 24-hours 90°F – min. 4-hours, max. 12-hours
Film Thickness	Thin film 5 mils.
Primers	Self priming
Colors	Clear (Colors available upon request)



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Surface Preparation

Existing Coatings -

Sand surface to dull gloss finish and provide a profile. All visible oil, grease, sludge, and any other contaminants shall be removed.

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.

Application Methods

Mixing -

Mix base component (For Colors) until a homogeneous mixture is obtained. Next, pour activator into base component and mix using mechanical jiffy mixer for 2-3 minutes. Make sure all material is thoroughly mixed. **Pouring mixed material into a clean container and re-mixing insures complete reaction** of 100% solids epoxy. Once Parts A and B are mixed, glass beads or other suitable products may be mixed with the product to achieve desired, non-skid properties.

Brush -

Use top-quality china 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.

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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New 8/24/09