



Epoxy &  
Polyurethane  
Manufacturing and  
Research

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

### Description

SynDeck® IMO 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 coat. SS5100 Series has very low odor, superior clarity and is self-leveling. SS5100 Series can be applied at lower temperatures with no blushing and is dry for foot traffic overnight.

### Applications

SynDeck® IMO 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) (59 N/mm <sup>2</sup> )
Adhesion	Excellent >1,000 lbs. psi ASTM D-4541 (6.9 N/mm <sup>2</sup> )
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) (111 N/mm <sup>2</sup> )
Compressive Strength	13,800 psi ASTM C-579 (epoxy component) (95 N/mm <sup>2</sup> )
Hardness Shore D	88 (epoxy component)

### Physical Characteristics

Packaging	1 gal. premeasured kit (2.8L)
Flash Point	>200°F. (>93°C)
Gloss	90 minimum @ 60° specular
Mix Ratio	2:1 (A:B) by volume.
Pot Life	30 minutes at 70°F (21°C) (100 gram mass). Product pot life and cure will be affected at higher or lower ambient temperature conditions.
Dry Time	@70°F (21°C) 50% RH Recoat in 12-16 hours. Dry for walking traffic in 16 Hours. Full cure in 7 days.
Recoat Intervals	50°F (10°C) – min. 16-hours, max. 72-hours 70°F (21°C) – min. 8-hours, max. 24-hours 90°F (32°C) – min. 4-hours, max. 12-hours
Film Thickness	5 mils. (127mm)
Primers	Self priming
Colors	Clear (Colors available, see chart)



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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. Wipe with alcohol in accordance with SSPC-SP1.

### 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

### Mixing -

Mix base (Part A) (For Colors) until a homogeneous mixture is obtained. Next, pour activator (Part B) 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.

To ensure color consistency when using multiple batches of the same color, "Boxing" is recommended.

### Brush -

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

### Roller -

Lambswool or similar cover with phenolic core, ¼ - ½ inch nap thickness.  
(Shrot (6mm) or medium (13mm) pile)

### Environment -

Apply between 50°F. - 100°F (10°C - 38°C) and 5°F. above dewpoint.

Storage - >50°F (10°C)

### Caution -

Variances in color by batch can be evident and batch mixing is a recommended process.

## 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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