



Epoxy &
Polyurethane
Manufacturing and
Research

TECHNICAL BULLETIN

SynDeck® Ultra Lightweight Color DECO System (SS1290)

Description

SynDeck® Ultra Lightweight Color DECO System (SS1290) is an epoxy flooring system that offers 100% solids Zero-VOC at less than (1) lb./ft.² at ¼ inch for deck underlayment. It is a three step system and has excellent adhesion, and is specifically designed to meet Navy protocol. It can be installed in various colors or flakes to achieve desired color and texture.

Applications

SynDeck® Ultra Lightweight Color DECO System (SS1290) is applied to properly prepared metals and utilized as a protective coat over metal decks in marine environments where fairing and leveling of the substrate is required. It is ultra lightweight and is an especially good, easy to apply, decorative underlayment system. The SS1290 underlayment exhibits very little or no porosity and can be used in wet spaces or where other contaminants may be evident. Glass beads can be utilized in the Top Coat if a non-slip surface is required.

Performance

VOC	0 g/l Meets Final SCAQMD Rule 1113 (2008)
Tensile Strength	1250 psi
Chemical Resistance	Splash & Spillage of Aromatic Hydrocarbons, Keytones, Alkalis, Spray Paint, Salt Spray, Oil and Water
Tensile Elongation	3.5% (epoxy component)
Excellent Leveling & Flow	Troweled Application
Tear Strength	270 (Die C, pli)
Hardness Shore	A-99, D-44

Specifications

ULW Volume Solids	100%
VOC	Zero
ULW Weight	.8 lbs. @ 1/4 inch/ft ²
ULW Coverage	18-20 ft ²
ULW Dry Time	@70°F. 8 hours to coat
SS5000 Volume Solids	100%
VOC	Zero
SS5000 Coverage	@ 10 mils - 130 ft ² Recoat at 4 hours at 70°F.
Thinning	None. Use Acetone/Alcohol for clean up.
Shelf Life	12 months from date of manufacture



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DECKS –

To Apply SS1290 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-SP6 and achieve 1-2 mil surface profile. Small surfaces may be prepared in accordance with SSPC-SP2 and SSPC-SP3 followed by SSPC-SP1. See SS1290 Technical Bulletin for detailed application instructions.

SS5000 COLOR/ FLAKES –

Mix base component (For Colors) until a homogeneous color 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. Coat underlayment at 6-10 mils and spread color chips. See SS5000 Technical Bulletin for detailed application instructions.

SS5000 CLEAR TOP COAT -

Mix base component 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. Apply Clear Top Coat to Color Coat to desired mil thickness to cover/hide color flakes. See SS5000 Technical Bulletin for detailed application instructions.

Application Methods

SS1290 is a colored mixture of resin and aggregate to ensure proper mixing. Care should be taken in mixing the resin and the aggregate to achieve a homogeneous mixture, to alleviate dry/wet spots and proper resin cure

Mixing Resin –

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. In the mixing process take care not to introduce excessive air into the material and achieve a homogeneous mixture with no swirls.

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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