



Epoxy &
Polyurethane
Manufacturing and
Research

TECHNICAL BULLETIN

SynDeck® Regular Underlayment (FR0499)

Description

SynDeck® Regular Flooring & Underlayment Systems are 3-component, aggregate filled, 100% solids amine cured epoxy-flooring products that offer 0-VOC, have excellent adhesion, and are specifically designed to meet Navy protocol. These class products have over 15-years successful case history and are applied as an underlayment to irregular or uneven deck surfaces.

Applications

SynDeck® Regular Flooring & Underlayment Systems are applied to properly prepared and prime coated steel decks subject to continuous abrasion service, showers, heads, mess areas, machine shops, galleys and adjunct preparation areas. SynDeck® Flooring & Underlayment Systems are a troweled mixture of epoxy and aggregates designed to be used where irregularities, grades, or contours need to be corrected. SynDeck® 100% Solids Epoxy Flooring and Underlayments meet or exceed USDA requirements for incidental food contact associated with beverage and food processing facilities.

Performance

Type 1, Class 2 of Military Specification Mil-D-3134H (Navy)	
Type 1, Class 2 of Military Specification Mil-D-3135G (Navy)	
Approved by National Testing Standards #23161 & USS Leahy (CG-16)	
Approved by National Testing Standards #22377 & USS Constellation	
VOC	0 g/l Meets Final SCAQMD Rule 1113 (2008)
Weight	2.5 lbs./ft ² @1/4 inch
Tensile Strength	8,700 psi ASTM C-307 (epoxy component)
Tensile Elongation	3.1%
Ultimate Flexural Strength	16,100 psi
Compressive Strength	13,800 psi ASTM C-579
Hardness Shore D	88

Physical Characteristics

Volume Solids	100%
Packaging	6° (premeasured kits) or aggregate and resin separate
Flash Point	>200 °F.
Gloss	N/A
Mix Ratio	2:1 (A:B) by volume.
Pot Life	1-hour (Epoxy), 2-Hours (Epoxy/Quartz) at 70°F. 50% RH
Dry Time	@70°F. 50% RH Recoat in 8-24 hours Dry for walking traffic in 16-24 hrs depending on selected cure rate. Full cure in 3 days.
Film Thickness	18-20 ft ² /kit (See Packaging Instructions)
Thinning	None Required. Acetone or Alcohol for clean up.
Primers	Any Navy approved primer system
Colors	Natural Sand Color



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Resin SA1222 –

Contains flameout material in the resin. To be used in the aggregate mixes and any grout coats. The proper amount of resin needed to mix with the hardener is pre-measured in a 1-gallon can.

Hardener SB1222 –

Used for all functions and is pre-measured in a quart can.

Underlayment –

1 can each of SA1222 Resin and SB1222 Hardener with one bag of FR0499 Underlayment Mix. Yields approximately 18-20 ft² at ¼" thickness.

Grout Coat SS1255 –

Available at an application rate of 50 ft²/gallon/unit, which will vary with tightness of troweled aggregate.

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.

Mixing –

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. Pouring mixed material into a clean container and re-mixing insures complete reaction of 100% solids epoxy. Once the epoxy component is mixed, add the aggregate portion immediately and pour onto floor as soon as possible for slurry application.

Application Methods

Trowel –

Use hand trowel method to effectively spread mixed epoxy/aggregate and spread to a thickness @1/8"- ¼" thickness. Trowel over bond coating (SA1222 and SB1222) to fair deck irregularities and produce positive slopes toward drains.

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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