



Epoxy &
Polyurethane
Manufacturing and
Research

TECHNICAL BULLETIN

SynDeck® Ultra Lightweight Terrazzo Combo Underlayment/Terrazzo System (SS1290FC Terrazzo)

Description

SynDeck® Ultra Lightweight Terrazzo (SS1290FC Terrazzo) is three component aggregate filled, 100% solids amine-cured epoxy flooring product that is 0-VOC. This product has excellent adhesion and is specifically designed to meet Navy requirements of <1 lb/ft² at ¼ inch thickness. This product is an underlayment to fair and level decks and to provide a decorative surface at the same time. SS1290FC Terrazzo can resemble a marble/granite surface when cured.

Applications

SynDeck® Ultra Lightweight Terrazzo (SS1290FC Terrazzo) is applied to properly prepared decks, showers, heads, mess areas, shops, offices, galleys, berthing and passageways. SS1290FC Terrazzo is well suited for areas subject to continuous service. The SS1290FC Terrazzo system is a troweled mixture of epoxy and special aggregates designed to be used where irregularities, grades or contours exist and where the deck is required to be fair and level.

Performance

<ul style="list-style-type: none"> • Type III, Class 2, Grade B of Military Specification MIL-PRF-3135H (In testing) • Type 1, Class 4 of Military Specification MIL-PRF-24613A (SH) (In testing) • IMO FTP Code (Parts 2 and 6) 	
VOC	0 g/l
Tensile Strength	8,700 psi (epoxy component)
Compressive Strength	2,800 psi
Hardness Shore D	88

Physical Characteristics

Volume Solids	100%
Packaging	Resin and Hardener packaged in cans, Aggregate packaged in bags.
Flash Point	>200 °F.
Gloss	High gloss
Mix Ratio	Mix pre-measured kit as provided.
Dry Time	@70°F. 50% RH Dry for walking traffic in 6-10 hrs depending on selected cure rate. Full cure in 3 days.
Film Thickness	Trowel to achieve deck fairing and grade as required. Maximum 2" per application.
Thinning	None Required. Do not thin. Use acetone or alcohol for clean up.
Primers	None Required.
Colors	Blue, Sand, Salt & Pepper. Other colors can be formulated.
Pot Life	½ hour at 70°F, 50% RH
Shelf Life	2 years from date of manufacture.



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Packaging Description

SS1290FC Underlayment and Terrazzo Mix – 1 can each of SA1290FC Tan Resin and SB1290B Hardener with one bag of SC1290FC Terrazzo Aggregate.

Other recommended products used with the SS1290FC system

Bond Coat – Apply SS1222 to properly prepared deck in accordance with SSPC-SP1 prior to troweled application of SS1290FC Terrazzo. The proper amount of resin needed to mix with the Hardener is pre-measured in a 1 gallon can. See SS1222 Technical Bulletin for application instructions.

Grout Coat – Application of SS1255 or SS1256 Grout Sealer may be used depending on the tightness of troweled Terrazzo mix. See Technical Bulletin for SS1255 application instructions.

Top Coat Sealer – Apply SS5000 or SS5100 Top Coat Sealer for dry cured Ultra Lightweight Terrazzo (time dependent on ambient conditions). See SS5000/SS5100 Technical Bulletins for application instructions of these materials..

Surface Preparation

Metals –

All visible oil, grease, sludge, and any other contaminants shall be removed prior to any abrasive surface preparation. Surface must be clean, dry and corrosion free.

Epoxy –

Pour hardener (SB1290FC Terrazzo) into resin (SA1290FC) and mix using a mechanical “jiffy” type mixer for 2-3 minutes. Make sure all material is thoroughly mixed. Pouring mixed material into a second clean container and re-mixing insures complete reaction of 100% solids epoxy.

Mixing Epoxy with Aggregate

Immediately add the blended epoxy component (above) into the aggregate (SC1290FC Terrazzo) while mixing with an Epmar approved mixer. Mixing should take no more than 2 minutes. Material should be homogenous with no dry materials left. Transfer this blend into a second clean container to insure all materials from the sides and bottom are well mixed. This material should be applied immediately after mixing (see Pot Life above).

Application Methods

Trowel -

Use hand trowel method to spread mixed epoxy/aggregate to the desired thickness. Trowel over bond coating to fair and level deck irregularities and produce positive slopes toward drains.

Environment –

Apply between 50°-100°F and 5° above dew point.

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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Rev. 09/27/2011