



Epoxy &
Polyurethane
Manufacturing and
Research

TECHNICAL BULLETIN

SynDeck®

Ultra Lightweight Terrazzo (SS1290FC) Combo Underlayment/Terrazzo System

Description

SynDeck® Ultra Lightweight Terrazzo (SS1290FC) is a 3-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 can resemble a Marble/Granite surface when cured.

Applications

SynDeck® Ultra Lightweight Terrazzo (SS1290FC) is applied to properly prepared decks, showers, heads, mess areas, shops, offices, galleys, berthing and passageways. SS1290FC is well suited for areas subject to continuous service. The SS1290FC 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 2 of Military Specification MIL-PRF-24613A (SH) (In testing) • Type 1, Class 4 of Military Specification MIL-PRF-24613A (SH) (In testing) • IMO FTP Code (Part 2 of Annex 1 for floor coverings) (In testing) | |
| 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 | N/A |
| 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 | As needed. 18 ft ² /kit at 1/4" |
| Thinning | None Required. Do not thin. Use acetone or alcohol for clean up. |
| Primers | None Required. |
| Colors | Blue, Sand, Green, Salt & Pepper, and Red |
| Pot Life | 1/2 hour @ 70°F, 50% RH |
| Shelf Life | 1 year |



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Packaging Description

SS1290FC Underlayment & Terrazzo Mix – 1 can each of SA1290FC Resin and SB1290FC Hardener with one bag of SC1290FC Aggregate.

Other recommended products used with the SS1290FC system

Bond Coat - Apply SS1222 to properly prepared deck SSPC SP-11 prior to troweled application of SS1290FC. The proper amount of resin needed to mix with the hardener is pre-measured in a 1-gallon can. See SS1222 TDS for application instructions.

Grout Coat - Application SS1255 Grout Sealer may be used depending on the tightness of troweled terrazzo mix. See SS1255 TDS for application instructions.

Top Coat Sealer - Apply SS5000 or SS5100 Top Coat Sealer to dry cured Ultra Lightweight Terrazzo (time dependent on ambient conditions). See SS5000/SS5100 TDS 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. Prepare carbon steel in accordance with SSPC-SP11.

Epoxy –

Pour hardener (SB1290FC) into resin (SA1290FC) and mix using mechanical jiffy 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), while mixing with a mechanical jiffy mixer. This should be done at high speed for 2-3 minutes to ensure no dry materials are left. Transfer this blend into a second clean container and insure all materials from the sides and bottom are well mixed. The final mix will be a homogeneous mix of color and particle size. 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 60-100°F and 5°F 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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