



**TECHNICAL BULLETIN**  
**SynDeck™ ComDeck™**  
**Epoxy Underlayment**  
**(SS1271)**

**Description**

SynDeck™ ComDeck™ Epoxy Underlayment is a 100% Epoxy solids underlayment decking material developed for commercial use. This lightweight three-part system consists of a resin, hardener, and lightweight aggregate. SynDeck™ ComDeck™ is easily trowel applied, has minimal odor, and is zero VOC. It is an excellent underlayment for use beneath tiles, vinyls, and carpets. This product can be used for proper sloping to drains and scuppers, and is an excellent alternative to traditional cement product. SynDeck™ resin top coats and sealers can also be used as the final deck covering.

**Applications**

SynDeck™ ComDeck™ Epoxy Underlayment can be applied to properly prepared or prime coated decks, showers, heads, mess areas, berthing spaces, galleys, and passageways. This product is a troweled mixture of epoxy and aggregates designed to be used where irregularities, grades, slopes, or contours need to be created and/or corrected.

**Physical Characteristics**

<b>VOC</b>	0 g/L Theoretical – Additives may contain unreported trace amounts of VOC
<b>Coverage per Kit</b>	20ft <sup>2</sup> (1.9m <sup>2</sup> ) at 0.25 inch (6.35mm) wet film thickness <b>*Note:</b> Coverage rates will vary depending on surface texture and porosity
<b>Shelf Life</b>	2 years from date of manufacturing (see comments within storage section)
<b>Pot Life</b>	30 mins
<b>Mix Ratio by Volume</b>	2.3:1.0: 8.5 (A:B:C) *Approximate
<b>Dry/Recoat Time</b>	Dry to Touch: 8-10 hours Recoat Window: Within 24 hours after product reaches Dry to Touch state
<b>Thinning</b>	Not recommended. Clean up with acetone or denatured alcohol
<b>Mixed System Specific Gravity</b>	0.62 Theoretical
<b>Note:</b> Testing was performed at 77°F (25°C) and 50% RH. Product characteristics will vary depending on temperature, humidity and other conditions relative to the environment.	

**Packaging Description**

**Weight per Kit:**

16.30lbs (7.39kg)

**SynDeck™ ComDeck™ Part A Resin SA1271 contains:**

4.5lbs (2.0kg) / .48Gal (1.8L) of product in a premeasured 1 Gallon (3.8L) can

**SynDeck™ ComDeck™ Part B Hardener SB1271 contains:**

2.0lbs (0.9kg) / .24Gal (0.9L) in a premeasured 1 Quart (0.96L) can

**SynDeck™ ComDeck™ Part C Aggregate SC1271 contains:**

9.8lbs (4.44kg) of aggregate packed in a bag

**Surface Preparation**

All visible oil, grease, sludge and any other contaminants must be removed prior to any surface preparation. Surface must be clean, dry, corrosion free and have a 1-3 mil (25-75 micron) surface profile.

**Mixing**

**Part 1 (Epoxy)**

Using a mechanical jiffy mixer, slowly mix (300 – 600 RPM) Part A Resin for 1-2 minutes. Next, pour Part B Hardener into the premixed Part A Resin. Ensure that all contents have been transferred in a timely manner. Mix for 1-2 minutes at a slow to medium speed. Scrape sides of container and mix for an additional 1-2 minutes to obtain a homogenous mixture. Ensure all material is thoroughly blended prior to use.

The logo for SynDeck, featuring the word "SynDeck" in a bold, black, sans-serif font. The text is centered between two thick, horizontal green bars.

## TECHNICAL BULLETIN

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#### Part 2 (Epoxy & Aggregate)

Pour mixed epoxy (from part 1) and aggregate into a large mixing container (8 gallon/ 30 liter minimum). Larger mixing containers ensure a fast even blending. Using a large concrete speed mixing paddle (such as the QEP 75001Q), slowly blend the aggregate and resin together for 1-2 minutes. Scrape sides and bottom of container and mix for an additional 1-2 minutes. Material should be homogenous, with no dry material pockets. Immediately apply SynDeck™ ComDeck™ Epoxy Underlayment after material has been sufficiently mixed.

#### Application Methods

##### Trowel

Use a clean high quality "finish" hand trowel to initially spread the mixed epoxy and aggregate blend to the desired thickness, laying the mixture into the wet SS1222 Bond Coat at all times. Then apply slight pressure to pack the underlayment as you continue to trowel. Use a pushing motion rather than a pulling motion to move and compact the product. A final trowel movement to completely smooth and compact the product leaving a uniform and tightly finished surface. Keep trowel clean during entire application process.

##### Clean Up

Clean tools and equipment with denatured alcohol or acetone.

##### Environment

Substrate temperature should be between 50-90°F (10-32°C). The temperature of the substrate should exceed the "dew point" by 5°F (3°C) during application and hardening. Temperatures should not fall below 41°F (5°C) in the 24hrs after application. Ambient humidity should be between 30-70% RH during application and cure.

##### Storage

Store between 50°F - 100°F (10°C - 38°C). Keep in a cool, well-ventilated area, away from direct sunlight and heat. Store in a segregated and safe area, avoiding all possible sources of ignition. To maintain stated shelf life and the performance of the product the resins must be kept in original sealed containers at ambient temperature at all times. Material may crystallize or solidify upon exposure to low temperatures.



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**Recommended Products for Use with SynDeck ComDeck Epoxy Underlayment SS1271**

- Bond Coat:** Apply SynDeck™ Bond Coat SS1222 to properly prepared deck prior to troweled application of Epoxy Underlayment SS1271. See appropriate Technical Bulletin for application instructions.
- Grout Coat:** Use SynDeck™ Underlayment Sealer SS1257, or SynDeck™ Super Underlayment Sealer SS1259. Coverage will depend on the tightness of troweled underlayment. See appropriate Technical Bulletin for application instructions.

**Safety**

Refer to SDS for the detailed instruction for safe handling. Use in a well-ventilated area.

**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 that 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.



**Contact us for any additional application information.**

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