

# TECHNICAL DATA SHEET

## SYNDECK™ MARINE EPOXY (SS5400 CLEAR)

### SELF-LEVELING EPOXY

SynDeck™ Navy Epoxy (SS5400 Clear) is a top-quality amine-cured epoxy coating. It is 100% solids, very low odor, user friendly, and has excellent abrasion resistance. This product cures to a resilient, high-gloss clear film. It can be applied over properly sealed deck underlayments, properly prepared metal substrate, and properly prepared existing epoxy coatings. SynDeck™ Marine Epoxy SS5400 Series utilizes some of the most advanced additives for better self-leveling, faster flowing, and immediate air release. This product has superior gloss, and can be applied at lower temperatures (50°F/10°C) with no blushing. Product is dry for foot traffic overnight. SynDeck™ Marine Epoxy SS5400 Series contains no nonylphenol and is qualified to MIL-SPEC (as part of a system).

### Application

SynDeck™ Marine Epoxy SS5400 Clear can be applied to properly prepared substrates and marine deckings that are subject to continuous abrasion service. SynDeck™ Anti-Slip Additive (SS5220 or SS5250) can also be integrated as a final topcoat to improve slip resistance values.

### Packaging Description

**SynDeck™ Marine Epoxy Clear Part A Resin SA5400:**  
4.03lbs (1.8kg) / 0.42Gal (1.6L) of product in a 1 Gallon (3.8L) container

**SynDeck™ Marine Epoxy Part B Hardener SB5400:**  
2.0lbs (0.9kg) / 0.24Gal (0.9L) in a 1 Quart (0.96L) container

### Certification & Qualifications

- Qualified to MIL-PRF-24613(SH) Type I, Class 2, Grade A (DecoDeck II System, Super Light Terrazzo II System)
- Qualified to MIL-PRF-24613(SH) Type I, Class 2, Grade B (DecoDeck II System, Super Light Terrazzo II System)
- Qualified to MIL-PRF-24613(SH) Type V, Class 2, Grade A (Super Light Terrazzo II System)
- Qualified to MIL-PRF-24613(SH) Type V, Class 2, Grade

### Benefits

- 100% solids, 0g/L VOC
- Self-leveling
- High gloss
- Nonylphenol free

- B (Super Light Terrazzo II System)
- Qualified to MIL-PRF-32584 Type IV, Class 1, Grade A, Comp E (DecoDeck II System)
- Qualified to MIL-PRF-32584 Type IV, Class 2, Grade A, Comp E (DecoDeck II System, Super Light Terrazzo II System)
- Qualified to MIL-PRF-32584 Type V, Class 1, Grade A, Comp E (Super Light Terrazzo II System)
- Qualified to MIL-PRF-32584 Type V, Class 2, Grade A, Comp E (Super Light Terrazzo II System)

### Surface Preparation

**Direct to metal:** This product is not designed for direct to metal application without a primer.

**Existing coatings and/or after re-coat window:** Light abrasion to achieve a 1-3 mil (25-75 micron) surface profile. Surface must be solvent cleaned, dry, and free of contaminants.

### Mixing

Using a mechanical jiffy mixer, mix Part A Resin until a homogenous mixture is obtained. Next, pour Part B Hardener into the premixed Part A Resin. Blend the two components together for 1-2 minutes at a slow to medium speed. Take care not to introduce excessive air into the material. Scrape sides and bottom of container during the mixing process to ensure a

**SynDeck™**

Marine Underlayment and Deck Coatings

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### Properties

| PROPERTY                                | TYPICAL VALUE                      | UNIT                             |
|---|------------------------------------|----------------------------------|
| Colors                                  | Clear                              |                                  |
| VOC                                     | 0                                  | g/L                              |
| Mix Ratio                               | 1.77:1 (A:B)                       | volume                           |
| Solids                                  | 100                                | %                                |
| Specific Gravity                        | 1.1                                |                                  |
| Gloss                                   | >85                                | Gloss units                      |
| Abrasion                                | 68                                 | mg loss                          |
| Thinning                                | None required. Do not thin         |                                  |
| Coverage at 6-10 mils (0.15-0.25mm) WFT | 100 - 175   9.3 - 16.3             | ft <sup>2</sup>   m <sup>2</sup> |
| Pot Life                                | 30                                 | minutes                          |
| Dry time - Tack Free                    | 8-10                               | hours                            |
| Dry time - Light Traffic                | 10-12                              | hours                            |
| Dry time - Heavy Traffic                | 36-48                              | hours                            |
| Dry time - Full Cure                    | 5-7                                | days                             |
| Dry time - Recoat Time                  | Within 24 hours after Tack Free    | hours                            |
| Clean Up                                | MEK, Acetone, Denatured Alcohol    |                                  |
| Shelf Life                              | 24 months from date of manufacture |                                  |

Product tested at 70°F (20°C) and 50% RH. Pot life, dry time, and recoat times will depend on temperature, humidity and other conditions relative to the environment.



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completely homogenous mixture.

### Application Methods

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**Brush** Use top quality brush for best film properties

**Roller** Use Lambswool or similar cover with phenolic core, 1/4 - 3/8" (6-10mm) nap thickness

**Squeegee** Use high quality rubber squeegee

**Application note:** Pot life is dependent on the size of mixed material. Do not mix more material than can be applied within 30 minutes.

### Clean Up

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Clean hands and skin with warm water and mild soap. Clean tools and equipment with MEK, denatured alcohol, or acetone.

### Environment

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Substrate temperature should be between 50 - 90°F (10 - 32°C). The temperature of the substrate should exceed the "dew point" by 37°F (3°C) during application and hardening. Temperatures should not fall below 41°F (5°C) in the 24 hours after application. Ambient humidity should be between 30 and 70% RH during application and cure.

### Storage

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Store between 50 - 100°F (10 - 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. Avoid low temperature exposure, which may induce adverse effects typical of epoxy materials.

All reasonable care has been taken to ensure this publication is accurate upon issue. Such information may be affected by changes subsequent to issue. This Technical Data Sheet is to be used solely for this product. Prior to any use, consult the Safety Data Sheet (SDS) for information on hazard risks and product use parameters. All liability and all warranties express or implied are hereby excluded as to product performance results, the accuracy of these data including any warranty of merchantability or fitness for any purpose. SS5400

### Safety

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Refer to SDS for the detailed instruction for safe handling. Use in a well-ventilated area. Do not allow uncured epoxy to be in contact with skin for prolonged periods of time. If contact occurs, wash affected area immediately with soap and water. If eye contact occurs, flush with plenty of warm water. See a physician.

### Warranty

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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.

