

TECHNICAL DATA SHEET

SYNDECK™ IMO EPOXY (SS5000 SERIES)

SELF-LEVELING EPOXY

SynDeck™ IMO Epoxy (SS5000 series) is a top-quality amine-cured epoxy coating that meets requirements and has qualifications/certifications for IMO, ABS, MIL-SPEC (as part of a system), and Def. Stan. (as part of a system).. It is 100% solids, very low odor, user friendly, and has excellent abrasion resistance. This product cures to a resilient, high-gloss film and is available in an array of color options as well as clear. It can be applied over deck underlayments and properly prepared existing epoxy coatings. SynDeck™ IMO Epoxy SS5000 Series is self-leveling, has superior gloss, and can be applied at lower temperatures (50°F/10°C) with no blushing. Product is dry for foot traffic overnight.

Application

SynDeck™ IMO Epoxy SS5000 Series 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 be integrated to improve slip resistance values. Decorative flake can also be added into the applied wet colored epoxy to give a range of textures and finishes.

Packaging Description

SynDeck™ IMO Epoxy Part A Resin SA50XX:

4.5lbs (2.0kg) / 0.48Gal* (1.8L*) of product in a 1 Gallon (3.8L) container

*Note: Volume varies by color

Color	Weight	Volume
Tan	4.5lbs (2.0kg)	0.458Gal (1.73L)
Galaxy Blue	4.5lbs (2.0kg)	0.474Gal (1.80L)
Navy Blue	4.5lbs (2.0kg)	0.462Gal (1.75L)
Red	4.5lbs (2.0kg)	0.470Gal (1.78L)
Dark Green	4.5lbs (2.0kg)	0.451Gal (1.71L)
Dark Gray	4.5lbs (2.0kg)	0.444Gal (1.68L)
Midnight Blue	4.5lbs (2.0kg)	0.472Gal (1.79L)
Light Gray	4.5lbs (2.0kg)	0.437Gal (1.65L)
	4.5lbs (2.0kg)	0.477Gal (1.81L)

SynDeck™ IMO Epoxy Part B Hardener SB5000:

2.0lbs (0.9kg) / 0.24Gal (0.9L) in a 1 Quart (0.96L) container

Benefits

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

Certification & Qualifications

- ABS Approved
- Meets parts 2 and 5 of annex 1 of the IMO FTP Code 2010 for Floor Finishes
- Qualified to MIL-PRF-24613A(SH) Type I, Class 2, Grade A (Super Light Terrazzo system)
- Qualified to MIL-PRF-24613A(SH) Type I, Class 2, Grade B (Super Light Terrazzo system & DecoDeck System)
- Qualified to MIL-PRF-24613A(SH) Type V, Class 2, Grade A (Super Light Terrazzo system)
- Qualified to MIL-PRF-24613A(SH) Type V, Class 2, Grade B (Super Light Terrazzo system)
- Qualified to MIL-PRF-32584 Type IV, Class 1, Grade A, Comp E (DecoDeck system)
- Qualified to MIL-PRF-32584 Type V, Class 1, Grade A, Comp E (DecoCoat System, NuFlexCoat system, & Super Light Terrazzo system)
- Qualified to MIL-PRF-32584 Type V, Class 2, Grade A, Comp E (Super Light Terrazzo system)
- Meets UK Def Stan 07-247 Annex A, Category A1 (Flex-Deck system & Epoxy)
- Meets UK Def Stan 07-247 Annex B, Category A2 (IMO 1.5 1295 [Epoxy Resin] system & NuFlexCoat system)

SynDeck™

Marine Underlayment and Deck Coatings

SYNDECK™ IMO EPOXY (SS5000 SERIES)

SELF-LEVELING EPOXY

Properties

Property	Typical Value	Unit
Colors	Clear and colors available	
VOC	0	g/L
Mix Ratio	2:1 (A:B)	volume
Solids	100	%
Specific Gravity	1.08 - 1.11	
Gloss	>85	Gloss units
Abrasion	68	mg loss
Thinning	None required. Do not thin	
Coverage at 6-10 mils (0.15-0.25mm) WFT	120-200 11.1-18.6	ft ² m ²
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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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 completely homogenous mixture.

Application Methods

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

Clean hands and skin with warm water and mild soap.

Clean tools and equipment with MEK, 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 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

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.

Safety

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

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.

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.SS5000

The logo for SynDeck, featuring the brand name in a bold, black, sans-serif font. The text is centered within a white rectangular area that is flanked by two horizontal green bars, one above and one below the text.

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