

# TECHNICAL DATA SHEET

## SYNDECK™ NUFLEX EPOXY (SS1286 SERIES)

### SELF-LEVELING EPOXY

SynDeck™ NuFlex Epoxy (SS1286) is a two component, 100% solids, high build self-leveling colored epoxy that meets requirements and has qualifications/certifications for ANSI, IMO, ABS, MIL-SPEC (as part of a system), and Def. Stan. (as part of a system). It has excellent chemical and moisture resistance and is very low odor. This product is a resilient decking material and water barrier that is formulated to be applied directly to metal and other properly prepared substrates or other SynDeck™ leveling underlayments for military and commercial marine specification applications. It is typically a trowel-applied product, but can also be brushed and rolled. NuFlex Epoxy has good flow and leveling properties, and decorative flakes can be applied into the wet NuFlex Epoxy to create a unique look. This product is not a final finish and will require a SynDeck™ sealer.

### Application

SynDeck™ NuFlex Epoxy SS1286 series can be applied to properly prepared metal substrate decks or the SynDeck™ RediDeck System as a resilient coat where fairing and leveling is required. It is a one-step process that does not require a bond coat or waterproof membrane. This product is self-leveling and is an especially favored epoxy for high build applications in wet spaces.

### Packaging Description

**Small Kit** 6.87 Ð 7.72lbs (3.12 Ð 3.51kg)

#### SynDeck™ NuFlex Epoxy Part A Resin SA1286

Amount packaged in a premeasured 1 Gallon (3.80L) can, by color

Color	Weight	Volume
Arctic Ice Blue	6.18lbs (2.80kg)	0.57Gal (2.16L)
Tan	6.59lbs (3.00kg)	0.60Gal (2.27L)
Cadet Silver	6.79lbs (3.08kg)	0.62Gal (2.35L)
Deep Sea Blue	5.97lbs (2.71kg)	0.56Gal (2.12L)
Pewter Gray	6.71lbs (3.04kg)	0.61Gal (2.31L)
Scarlett Red	6.59lbs (2.99kg)	0.63Gal (2.39L)

#### SynDeck™ NuFlex Epoxy Part B Hardener SB1286

Amount Packaged In a Premeasured 1 Pint (0.47L) can: 0.90lbs (0.41kg) 0.11Gal (0.345L)

**Large Kit** 36.17 Ð 42.91lbs (16.41 Ð 19.48kg)

### Benefits

- 100% solids, 0g/L VOC
- High build, self-leveling
- Flexible & impact resistant

#### SynDeck™ NuFlex Epoxy Part A Resin SA1286

Amount packaged in a premeasured 5 Gallon (18.90L) pail, by color:

Color	Weight	Volume
Arctic Ice Blue	34.37lbs (15.59kg)	3.19Gal (12.07L)
Tan	36.58lbs (16.59kg)	3.19Gal (12.07L)
Cadet Silver	37.72lbs (17.11kg)	3.42Gal (12.95L)
Deep Sea Blue	31.17lbs (14.14kg)	3.05Gal (11.55L)
Pewter Gray	37.29lbs (16.91kg)	3.39Gal (12.83L)
Scarlett Red	36.59lbs (16.61kg)	3.51Gal (13.29L)

*\*Weights vary by color*

#### SynDeck™ NuFlex Epoxy Part B Hardener SB1286

Packaged in a Premeasured 1 Gallon (3.80L) can: 5.0lbs (2.27kg) 0.60Gal (2.27L)

### Certification & Qualifications

- ABS Approved
- Meets parts 2 and 5 of annex 1 of the IMO FTP Code 2010 for Floor Covering
- Meets and exceeds ANSI A118.10 Requirements
- Certified to MIL-PRF-32584 Type V, Class 1, Grade A, Comp E (NuFlexCoat System)
- Meets UK Def Stan 07-247 Annex A, Category A1 (NuFlexDeck system)
- Meets UK Def Stan 07-247 Annex B, Category A2 (NuFlexCoat system & NuFlexDeckM system)

# SynDeck™

Marine Underlayment and Deck Coatings

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### Properties

Property	Typical Value	Unit
Colors	Multiple colors available	
VOC	0	g/L
Mix Ratio	5.27:1 ÷ 5.60:1 (A:B)	volume
Solids	100	%
Specific Gravity	1.24 - 1.28	
Gloss	Not Applicable	
Abrasion	Not Applicable	
Thinning	None required. Do not thin	
Coverage at 40 mils (1mm) WFT - Small Kit	33.3-35.7   3.1-3.3	ft <sup>2</sup>   m <sup>2</sup>
Coverage at 40 mils (1mm) WFT - Large Kit	154.4-165.6   14.3-15.4	ft <sup>2</sup>   m <sup>2</sup>
Pot Life	30	minutes
Dry time - Tack Free	10-12	hours
Dry time - Light Traffic	24-30	hours
Dry time - Heavy Traffic	Not Applicable	
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	18 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.

### Surface Preparation

**Direct to metal:** All visible oil, grease, sludge and any other contaminants must be removed prior to mixing and application. SSPC SP11 / ISO 8501-1 ST3 (power tool) at minimum, SSPC-SP10 / ISO 8501-1 SA2.5 (blasting preferable). Surface must be clean, dry, corrosion free, and have a 1-3 mil (25-75 micron) surface profile.

**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.

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### Mixing

Mix NuFlex Epoxy Part A Resin SA1286 until a homogenous mixture is obtained. Next, pour Part B Hardener SB1286 into Part A Resin component and mix slowly (500-1,000 rpm) using a mechanical jiffy-type mixer for 1-2 minutes. Scrape the sides of the container and mechanically mix for an additional 1 minute. It is very important to achieve a proper mechanical mix. In the mixing process, take care not to introduce excessive air into the material in order to achieve a completely homogenous mixture.

### Application Methods

#### Trowel

For application to coving and bulkheads, use a high quality roller or stiff bristle brush. To build sufficient material, use a top-quality flat or notched trowel depending on desired material thickness. A notched trowel will aid in air release and provide a uniform application thickness. SynDeck™ NuFlex Epoxy may also be applied with a brush or roller in a low-build application. Use of a spiked or porcupine roller after application is recommended to additionally help release air.

#### 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. SS1286

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