TECHNICAL DATA SHEET

SeaShield 526™ Epoxy

Underwater and Trowel Grade Epoxy

Description

SeaShield 526 Epoxy is a 100% solids two part, moisture tolerant, non-sag, high build epoxy designed for dry, damp, wet and underwater surfaces. It can be used to provide a top bevel for pile jacketing systems when combined with the SeaShield Aggregate Part C.

Uses

- Dry, damp, wet and underwater surfaces for steel, concrete or wood
- Top bevel for pile jacketing systems when combined with aggregate
- Corrosion protection pilings, bridges, sheet piles, pipelines and other surfaces subject to corrosion in fresh or salt water environments
- Concrete patch repair
- A variety of commercial and industrial applications including cooling towers, water/wastewater clarifiers, digestors, lift stations, walls and manholes.

Features

- Can be applied to dry, damp, wet and underwater surfaces
- Can be used for vertical and horizontal applications
- Excellent adhesion to wet surfaces
- Easily applied by brush, gloved hand, Denso Applicator Pad or roller
- Long pot life
- High build
- Safe and environmentally friendly
- Excellent abrasion and impact resistance
- No VOC's, 100% solids

Surface Prep

Surface preparation is very important and will improve the adhesion and extend the life of the coating. Surface preparation should include the following:

1. Surface must be at least 40ºF (4ºC) prior to application.
2. Surface must be sound and free of loose rust, marine growth, and any old existing coatings.
3. Remove all oils, greases, dirt and wax solutions from surface.
4. High-pressure waterblast, sandblast or shot-blast the surface to remove contaminants which will interfere with proper adhesion. Waterblast shall be done at a minimum of 3,500 psi (24 MPa).

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A. **Concrete:** Prepare surface by high water-blasting or other mechanical means to achieve ICRI Guideline 310.2R CSP 6-9. New concrete should hydrate a minimum of 5 days prior to coating.

B. **Steel:** Prepare surface by high water-blasting or other mechanical means to achieve SSPC-SP-12/NACE 5 WJ-4.

C. **Wood:** Prepare surface by high water-blasting or other mechanical means necessary to achieve a sound surface, free of all contaminants.

Mixing

For Coating Applications: For best mixing & application, components shall be at a min. 70°F(21°C) prior to use. Initially stir Part A (base) & Part B (hardener). Add the hardener to the base and mix at a slow speed until a constant color is achieved making sure all sides of the container are scraped.

For Top Bevel: Mix neat resin as stated above, then add up to 1 part SeaShield Aggregate Part C by volume, slowly to avoid clumping, while continuing to mix for approximately 2-3 minutes or until a uniform consistency is achieved, scraping pails as needed.

Application

SeaShield 526 Epoxy can be applied by Denso Brush, Denso Applicator Pad, gloved hand or roller. If surface is damp or wet displace water as the coating is applied.

Denso Brush: place material on brush and spread out evenly over the surface.

Denso Applicator Pad: place material on applicator pad with stir stick then spread out evenly with applicator pad.

Gloved Hand: make sure glove is tight fitting made of rubber and/or plastic and is chemical resistant. Gloves should be wet to prevent adhesion to gloves and press SeaShield 526 onto surface and work into place to require thickness. Use water as a lubricant to smooth out material.

Roller: use a low nap roller and place material on surface and proceed rolling out material until an even mil thickness is achieved.

For Top Bevel Application: Use a steel trowel and immediately construct the top bevel using the mixed SeaShield FX-763 with aggregate to construct a slope that will shed water.

Storage

Store in a dry, well-ventilated area between 40ºF and 95ºF (4 and 35ºC) in original, unopened containers. Shelf life is at least 24 months under these conditions. It is recommended that all components be stored between 68ºF and 86ºF (20 and 30ºC) for 24 hours prior to use for optimum pumping and productivity.

Cleaning

Clean tools and equipment with MEK or equivalent solvent cleaner.

HSE

Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See Safety data sheet for further information.

Packaging

Kit Size	Part A	Part B
1 Liter (0.26-gal.) kit	1 qty - 1/2 liter pail	1 qty - 1/2 liter pail

Other unit sizes are available upon request.

TECHNICAL DATA SHEET

Tech Data

Properties	Imperial	*Metric*
Solids Content	100%	*100%*
Base Component – (Unmixed) @ 77°F (25°C)		
Viscosity	192,000 cps	*192,000 cps*
Color	White	*White*
Hardener – (Unmixed) @ 77°F (25°C)		
Viscosity	17,200 cps	*17,200 cps*
Color	Black	*Black*
Mixed Material @ 77°F (25°C)		
Viscosity	62,000 cps	*62,000 cps*
Color	Gray	*Gray*
Mixing Ratio (A/B) by Volume	2 parts Base:1 part Hardener	*2 parts Base:1 part Hardener*
Cure Times		
Pot Life @77°F (25°C)	1 hour	*1 hour*
Pot Life @97°F (36°C)	20 minutes	*20 minutes*
Dry Life @50°F (25°C)	24 hours	*24 hours*
Dry Life @77°F (25°C)	7 hours	*7 hours*
Dry Life @117°F (25°C)	3 hours	*3 hours*
Cathodic Disbondment - 28 days at 77°F (25°C) @ -1.5V (ASTM G 95-97 - 1988 Modified)		
Dry Substrate	8.8 mm	*8.8 mm*
Damp Substrate	7.8 mm	*7.8 mm*
Wet Substrate	6.7 mm	*6.7 mm*
Impact Resistance	81.8 inch lbs.	*9.25 joules*
Theoretical Coverage	14 ft^2/30 mils/liter	*1.301 m^2/762 microns/liter*
Thickness		
Minimum/Maximum	30 mils to 1/4 inch	*762 to 6350 microns*
Taber Abrasion	11.3 mg	*11.3 mg*
Shore D Hardness @ 77°F (25°C)	85 +/-	*85 +/-*
Gouge Resistance 50 kg weight	22 mils gouge depth	*559 microns gouge depth*
Pull-Off Adhesion (RT)		
Dry Substrate	2587 psi	*17.8 MPa*
Damp Substrate	2455 psi	*16.9 MPa*
Wet Substrate	2621 psi	*18.1 MPa*
Application Temperature	40°F to 125°F	*5°C to 52°C*
Service Temperature	-40°F to 150°F	*-40°C to 65°C*

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DENSO, INC.

HOUSTON:
9710 Telge Road,
Houston, Texas,
U.S.A. 77095
Tel: 281-821-3355
Fax: 281-821-0304

TORONTO:
90 Ironside Crescent,
Unit 12, Toronto,
Ontario, Canada M1X1M3
Tel: 416-291-3435
Fax: 416-291-0898

www.densona.com

info@densona.com

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