

# 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 underwater applications. It can also be used for aboveground applications including top seal and beveling of pile caps.

### Uses

Can be used on underwater or above water on steel, concrete or wood structures for corrosion protection and sealing. Applications would include pilings, bridges, sheet piles, pipelines and other surfaces subject to corrosion in fresh or salt water environments. Also, can be troweled on as a top seal and beveling on pile caps.

### Features

- Can be applied to wet, damp or dry surfaces
- Can be used for vertical, horizontal and overhead applications
- Excellent adhesion to wet surfaces
- Easy to apply "puffy-like" consistency
- Long pot life
- Can be applied underwater
- High build, no sag
- Safe and environmentally friendly
- Easily applied with applicator pad, gloved hand, trowel or putty knife
- Can be feathered to an edge
- Excellent abrasion and impact resistance

### 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:

Surface must be at least 40°F (4°C) prior to application.

Surface must be sound and free of loose rust, marine growth, and any old existing coatings.

Remove all oils, greases, dirt and wax solutions from surface.

**Steel Surfaces:** The recommended method is to prepare the surface by abrasive blasting per SSPC-SP6/NACE 3 Commercial Blast. However, high-pressure water blasting is acceptable and shall be done at a minimum of 3,500 psi (24 MPa). Scraping and other manual means of surface preparation should be avoided since they tend to polish the surface.

**Concrete:** Concrete should be a minimum of 28 days old and fully cured prior to application. Prepare the surface by abrasive blasting per SSPC-SP13/NACE 6, ICRI Guideline 310.2R CSP3.5.

**Wood:** Prepare surfaces by high-pressure water blasting and shall be done at a minimum of 3,500 psi (24 MPa).



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# PRODUCT DATA SHEET

## Mixing

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.

## Application

For best results SeaShield 526 Epoxy can be applied by Denso Applicator Pad, gloved hand, trowel or putty knife. If surface is damp or wet displace water as the coating is applied.

**Denso Applicator Pad:** Place material on surface with stir stick and 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.

**Trowel or Putty Knife:** Place material on surface and smooth out evenly and feather edges as required.

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# SeaShield 526™ Epoxy

## PRODUCT DATA

<b>Solids Content</b>	100%
<b>Base Component – (Unmixed) @ 77°F (25°C)</b>	
Viscosity	330,000 cps
Color	White
<b>Hardener Component – (Unmixed) @ 77°F (25°C)</b>	
Viscosity	64,000 cps
Color	Black
<b>Mixed Material @ 77°F (25°C)</b>	
Viscosity	162,000 cps
Color	Grey
<b>Mixing Ratio (A/B) by Weight</b>	2 parts Base:1 part Hardener
<b>Cure Times</b>	
Pot Life @ 77°F (25°C)	1 hour
Pot Life @ 97°F (36°C)	20 minutes
Dry Time @ 50°F (10°C)	24 hours
Dry Time @ 77°F (25°C)	7 hours
Dry Time @ 117°F (47°C)	3 hours
<b>Cathodic Disbondment - 28 days at 77°F (25°C) @ -1.5V (ASTM G 95-97 – 1988 Modified)</b>	
Dry Substrate	8.8 mm
Damp Substrate	7.8 mm
Wet Substrate	6.7 mm
<b>Impact Resistance – 2.54 lb. tup</b>	81.8 inch lbs. or 9.25 joules
<b>Theoretical Coverage</b>	14 ft <sup>2</sup> /30 mils/liter (1.301 m <sup>2</sup> /762 microns /liter)
<b>Thickness Minimum/Maximum</b>	30 mils to 2 inches (762 to 50,800 microns)
<b>Taber Abrasion (1000 cycles, CS-17 wheel, 1 kg load)</b>	11.3 mg
<b>Shore D Hardness @ 77°F (25°C)</b>	75 +
<b>Gouge Resistance 50 kg weight</b>	22 mils (559 microns) gouge depth
<b>Pull-Off Adhesion (RT)</b>	
Dry substrate	2587 psi
Damp substrate	2455 psi
Wet substrate	2621 psi
<b>Application Temperature</b>	40°F (5°C) to 125°F (52°C)
<b>Service Temperature</b>	-40°F (-40°C) to 150°F (65°C)

**STORAGE:** Minimum 24 months when stored in original containers between 41°F (5°C) to 100°F (38°C). On job site where temperatures are below 60°F (16°C) product should be kept warm to mix properly.

**CLEANING:** Clean tools and equipment with MEK or equivalent solvent cleaner.

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

**PACKAGING:** 1 liter kits standard. Other unit sizes are available upon request.



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