

# SEASHIELD 525™ EPOXY

## Epoxy Coating for Dry and Wet Surfaces

### Description

SeaShield 525 Epoxy is a 100% solids two part, moisture tolerant, non-sag, high build epoxy designed for dry, damp and wet surfaces. It can be used for steel, concrete and wood structures.

### Uses

Can be used on dry, damp or wet surfaces for steel, concrete or wood to provide corrosion protection and sealing. Applications would include pilings, bridges, sheet piles, pipelines and other surfaces subject to corrosion in fresh or salt water environments. It can also be used in a variety of commercial and industrial applications including cooling towers, water/wastewater clarifiers, digestors, lift stations, walls and manholes.

### Features

- Can be applied to wet, damp or dry 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:

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).



# TECHNICAL 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

SeaShield 525 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 525 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.

## 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.

## 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 kit	0.5 liter	0.5 liter
1 Gal kit	1 Gal	1 Gal

# TECHNICAL DATA SHEET

## Tech Data

Properties	Imperial	Metric
<b>Solids Content</b>	100%	100%
<b>Base Component (Unmixed) @ 77°F (25°C)</b>		
Viscosity	192,000 cps	192,000 cps
Color	Gray	Gray
<b>Hardener Component (Unmixed) @ 77°F (25°C)</b>		
Viscosity	17,200 cps	17,200 cps
Color	Black	Black
<b>Mixed Material @ 77°F (25°C)</b>		
Viscosity	62,000 cps	62,000 cps
Color	Dark Gray	Dark Gray
<b>Mixing Ratio (A/B) by Weight</b>	1.75 Parts Base: 1 Part Hardener	1.75 Parts Base: 1 Part Hardener
<b>Cure Times</b>		
Pot Life @ 77°F (25°C)	1 hour	1 hour
Pot Life @ 97°F (36°C)	23 minutes	23 minutes
Dry Time @ 50°F (10°C)	24 hours	24 hours
Dry Time @ 77°F (25°C)	7 hours	7 hours
Dry Time @ 117°F (47°C)	3 hours	3 hours
<b>Cathodic Disbondment 28 days at 77°F (25°C)@ -1.5V (ASTM G 95 Modified)</b>		
Dry Substrate	8.8 mm	8.8 mm
Damp Substrate	7.8 mm	7.8 mm
Wet Substrate	6.7 mm	6.7 mm
<b>Impact Resistance – 2.54 lb. tup</b>	81.8 inch lbs.	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 1/4 inch	762 to 6350 microns
<b>Taber Abrasion (1000 cycles, CS-17 wheel, 1 kg load)</b>	11.3 mg	11.3 mg
<b>Shore D Hardness @ 77°F (25°C)</b>	75 +	75 +
<b>Gouge Resistance 50 kg Weight</b>	22 mils gouge	559 microns gouge
<b>Pull-Off Adhesion (RT)</b>		
Dry substrate	2587 psi	2587 psi
Damp substrate	2455 psi	2455 psi
Wet substrate	2621 psi	2621 psi
<b>Application Temperature</b>	40°F to 125°F	5°C to 52°C
<b>Service Temperature</b>	-40°F to 150°F	-40°C to 65°C



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