

PANSEAL

Product Data

PANSEAL Gallons
2000PG



SELECTION & SPECIFIC DATA

Generic Type

Polyamide Epoxy

Description

PANSEAL is a unique, multi-component, epoxy system formulated for corrosion control and restoration of petroleum storage tanks. PANSEAL is flexibilized to reduce coating stress resulting from mechanical and physical forces exerted on the tank bottom. PANSEAL may also be used for chemical storage tanks providing good chemical resistance to organic acids, alkali and salts. PANSEAL is known for its forgiving application characteristics in adverse and varied conditions. PANSEAL quickly seals and repairs leaking and corroded surfaces, forming a new, non-corroding and permanently restored surface. PANSEAL has excellent adhesion properties which allows it to bond to steel, concrete and iron even when coating conditions are less than ideal. PANSEAL can be used on a variety of substrates and applications such as wastewater (tanks, lift stations, wet wells, and manholes), storage tanks and cooling tower repair. PANSEAL is also ideal for interior or exterior pipe lining or coating and will protect the substrate with excellent chemical resistance properties. PANSEAL is used for commercial and industrial applications worldwide.

Product Features & Benefits

- *Seals leaks immediately.*
- *Minimal system down time.*
- *Easy brush/roller/spray application.*
- *100% solids and entirely free of solvents and VOCs.*
- *Works on metal, fiberglass, stainless steel, concrete and wood surfaces.*
- *Bonds chemically and mechanically to the substrate.*
- *Excellent adhesion strength – 2,750 psi (pull-off adhesion test ASTM D 4541).*

Recommended Uses

- *Cooling Tower Repair*
- *Condenser Pans*
- *Tank Linings*
- *Secondary Containment Lining*
- *Leak Repair, Flooring, Pipeline Coating, Clarifiers, Collection Systems, Digesters, Lift Stations, Manholes, General Corrosion Protection, Acid Resistant Linings, Abrasion Resistant Linings and Exterior Finishes.*

Color/Part #

Light Gray - Dark Gray, Blue, Black Red, White for special orders.

Finish

Gloss

Primer

Self-priming

Dry Film Thickness

8 – 12 mils per coat

Solids Content

By Volume 100% +/- 1%

Theoretical Coverage

1604 ft² at 1 mil 106 ft² at 15 mils 64 ft² at 25 mils

Dry Temp. Resistance

Continuous: 220°F (104°C) Non-Continuous: 250°F (121°C)

Discoloration and loss of gloss occurs above 200°F (93°C) but does not affect performance.

Under Insulation Resistance

Continuous: 175°F (79°C)

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2.

Elasticity 8%
Specific Gravity resin: 1.45 hardener .97

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General Surfaces must be clean and dry. Remove all dirt, dust, oil and all other contaminant.

Steel Immersion: SSPC-SP10 Near White with jagged profile of 2.5 – 3.5 mils.

Non-immersion SSPC-SP6 1.5 – 3.0 mils SSPC-SP2 or SP3 are suitable cleaning methods for mild environments.

Concrete or CMU Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing. Mortar joints should be cured a min of 15 days. Prime with Dynesic DX-1100 Concrete Primer.

* For previously painted surfaces contact Dynesic Technical Service Department.

CHEMICAL RESISTANCE

Acetic Acid 10%	Alkalis	Amonium Hydroxide 25%
Brine Water	Caster Oil	Copper Sulfate
Crude Oil	Diesel Fuel	Ethanol
Ethylene Glycol	Fatty Acids	Fresh and Non-Potable Water
Gasoline	Hydrochloric Acid 20 %	Mineral Spirits
Potassium Hydroxide 50%	Sewage	Sodium Chloride
Sodium Hydroxide 50%	Sulfuric Acid 75%	Wine

MIXING & THINNING

Mixing Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS.

Thinning Spray: Up to 6.5 oz/gal (5%) w/ TH1710
Brush: Up to 16 oz/gal (12%) w/ TH1710
Roller: Up to 16 oz/gal (12%) w/ TH1710

* Use of thinners other than those supplied or recommended by Dynesic may adversely affect product performance and void product warranty, whether expressed or implied.

Ratio 3:1 Ratio (A to B) by Volume

Pot Life 8 hours 20 minutes at 5°C (41°F)
2 hours at 25°C (77°F)
50 minutes at 33°C (92°F)

* Do not keep the blended coating in the original container unless immediate use is planned. Otherwise, exothermic heat created during the curing process will considerably shorten the pot life. Pour the coating into a rolling tray or large aluminum-basting pan. Try to keep the depth of the coating in the tray below 3/8".

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General)

This is a 100% solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

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3.

Diameter of Whip: 1/4 – 3/8" ID
Length of Whip: 20 feet
Power Ratio Pump: 56:1 or greater
Static Mixer: 2 x 1/2" ID x 12" in length behind mixing valve
Part A Temperature: 130 – 135°F in reservoir tank
Part B Temperature: 90 – 95°F in reservoir tank

Airless Spray Single Leg or Hot Pot

Pump Size: 56:1 or greater
Hose Length/Diameter: 50 ft x 3/8"
Whip Length/Diameter: 10 ft x 1/4"
Work Life, 4 gallons at 32°C (90°F):
No Thinner: 25 minutes

3 – 5% Thinner: 35 – 40 minutes

** Part A resin and Part B hardener should be heated individually to 75 – 85°F before mixing so product will atomize properly in delivering paint to the substrate. Mixed product should be sprayed within 20 minutes after mixing.*

Brush & Roller (General)

Brush/Roller Application This material may be applied with brush or roller. Be aware of working life when using brush or roller application.

Brush Use a medium bristle brush.

Roller Use a short-nap synthetic roller cover with phenolic core.

CLEANUP & SAFETY

Cleanup Use MEK or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety Read and follow all caution statements on this product data sheet and on the MSDS for this product. Wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. User should test and monitor exposure levels to insure all personnel are below guidelines.

PACKAGING, HANDLING & STORAGE

Shelf Life Part A: 12 months at 75°F (24°C)
Part B: 12 months at 75°F (24°C)

** When kept at recommended storage conditions and in original unopened containers.*

Shipping Weight (Approximate) 1 Gallon Kit: 12 lbs (5.45 kg)
4 Gallon Kit: 50 lbs (22.73 kg)
5 Gallon Bulk pails: Part A 70 lbs/Part B 44 lbs
50 Gallon Drums: Part A 700 lbs/Part B 450 lbs

Storage Temperature & Humidity 40° – 110°F (4° – 43°C)
0 – 100% Relative Humidity

Storage Store Indoors. This product is not affected by excursions below these published storage temperatures, down to 10°F, for a duration of no more than 14 days. Always inspect the product prior to use to make sure it is smooth and homogeneous when properly mixed.

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4.

Airless Spray Plural Component

Tip Size: .025 – .029 reversible type
Diameter of Part A Fluid Line: 1/2" ID
Diameter of Part B Fluid Line: 3/8" ID
Spray Line: 1/2" ID x 50 feet maximum

PERFORMANCE DATA

<u>TEST METHOD</u>	<u>SYSTEM</u>	<u>RESULTS</u>
ASTM D-4541 Dry	Blasted Steel 1 ct.	>2,500 psi
ASTM D-4541 Dry	Scuffed FBE 1 ct.	>2,000 psi
ASTM D-4541	Blasted Steel 1 ct.	>2,500 psi
Wet 5 days 70 °C water		
ASTM D 4060 Abrasion	Blasted Steel 1 ct.	80 mg. loss 770 cycles per mil
1000 cycles, CS17 wheel 1000 gm. load		
ASTM C-109	Blasted Steel 1 ct.	10,000 – 13,000 psi
Compressive Strength		
ASTM D-2240 Hardness	Blasted Steel 1 ct.	83 – 90 Shore D

CURE SCHEDULE & RE-COAT WINDOW

<u>TEMPERATURE</u>	<u>MINIMUM RE-COAT</u>	<u>MAXIMUM RE-COAT</u>	<u>RETURN TO SERVICE</u>
10°C (50°F)	8 hours	14 days	7 days
25°C (77°F)	4 hours	14 days	72 hours
60°C (140°F)	1 hour	Not recommended	4 hours

* Return to service - aqueous/hydrocarbon immersion

DYNESIC TECHNOLOGIES

produces exceptional chemically engineered coatings, adhesives and sealants offering premium corrosion protection, while being safe for the environment and user friendly. Dynesic Technologies can be found protecting steel, ductile and concrete substrates worldwide.

SEALPRO
LLC

150 Dow Street, Suite 316C
Manchester, NH 03101
(603) 669-2243
www.sealproweb.com

