

# PANSEAL

## Product Data

PANSEAL Gallon Kit  
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, 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 resurfacing. 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/sprayer, self-level application*
- *100% solids and entirely free of solvents - NO 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, Black, Blue, Red, White

**Finish** Gloss

**Primer** Self-priming

**Solids Content** By Volume 100%

**Theoretical Coverage** 160 ft<sup>2</sup> at 10 mils thickness, 80 ft<sup>2</sup> at 20 mils thickness

**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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**Elasticity** 8%  
**Specific Gravity** resin: 1.45, hardener .97

### SUBSTRATES & SURFACE PREPARATION

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

**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/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.

\* *Dynesic DX-1100 primer must be applied prior to application on concrete surfaces.*

\* *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

\* *Call or email for a complete list of chemical resistance.*

### MIXING & THINNING

**Mixing** Power mix part A resin separately, then add part B hardener and power mix.

**Thinning** **Spray:** Up to 6.5 oz/gal (5%) w/ Acetone or Xylene

**Brush:** Up to 16 oz/gal (12%) w/ Acetone or Xylene

**Roller:** Up to 16 oz/gal (12%) w/ Acetone or Xylene

\* *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 pour directly onto the surface. Try to keep the depth of the coating in the tray below 3/8".*

### APPLICATION 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)**

PANSEAL 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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### 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  
**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)

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.

### PACKAGING, HANDLING & STORAGE

**Shelf Life** 24 months at 75°F (24°C)

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

**Shipping Weight (Approximate)** 1 Gallon Kit: 12 lbs. (5.45 kg)  
4 Gallon Kit: 50 lbs. (22.73 kg)  
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.

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### 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 Wet 5 days 70 °C water	Blasted Steel 1 ct.	>2,500 psi
ASTM D 4060 Abrasion 1000 cycles, CS17 wheel 1000 gm. load	Blasted Steel 1 ct.	80 mg. loss 770 cycles per mil
ASTM C-109 Compressive Strength	Blasted Steel 1 ct.	10,000 – 13,000 psi
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>
10°C (50°F)	8 hours	14 days
25°C (77°F)	4 hours	14 days
60°C (140°F)	1 hour	Not recommended

### DYNESIC TECHNOLOGIES

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



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