PANSEAL

Product Data

PANSEAL Gallons
2000PG

PRODUCT PROFILE

PANSEAL is s a unique, multi-component, novolac epoxy system designed to quickly seal and repair leaking and corroded surfaces, forming a new, non-corroding and permanently restored surface. PANSEAL is comprised of 100% solids and contains no VOC's. Excellent adhesion properties allow PANSEAL to bond to steel, concrete and iron even when coating conditions are less than ideal. PANSEAL incorporates re-cycled tire rubber which solves the purpose of obtaining excellent impact resistance and elongation properties while serving the environment by providing a useful application for what would otherwise saturate landfills. 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. One gallon of PANSEAL covers 160 square feet at 10 mils. thickness.

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

PHYSICAL PROPERTIES

Color - Dark Gray, light gray, light blue, rust red
*Paste Grade available in gray only.
Container Size - 1 gallon
Coverage per Gallon (Theoretical) - 160 sq. ft. @ 10 mils.
Flash Point - > 250°F (121°C)

PHYSICAL PROPERTIES (Cont.)

Elasticity - 8%
Specific Gravity - resin: 1.45 hardener .97
Volatile Organic Compounds (VOC) - 0 grams/liters
Pull-Off Adhesion Test ASTM D 4541 - minimum adhesion is 2,750 psi
Recommended Thickness - 1 or 2 coats @ 8-12 mils. each

POT LIFE

40°F (4°C) - 9 hours
75°F (24°C) - 35 minutes
92°F (33°C) - 20 minutes
**Do not keep the blended coating in the original container unless immediate use is planned. Otherwise, exotherm (heat created during the curing process) will considerably shorten the pot life.*

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

SERVICE TEMPERATURE

Dry Service - -30°F to 250°F (121°C)
Spill/Splash - 190°F (87.7°C)
Immersion - 150°F (65.5°C)*
* Water Immersion - 190°F (90°C) - Atlas test cell for 60 days, unaffected.

CURE TIME (at 70°F or 21°C)

Re-coat Window - 24 hours maximum
Light Loading - 2 Days
Immersion (Aqueous) Service - 24 hours

PUMP SPECIFICATIONS

Pump Ratio:
56:1 or greater, minimum output - 5,600 psi
Product Hose:
Min. - Optimum I.D. - 0.375 - 0.5 inch, max. length - 60 feet
**Xylene can be added to thin product.*

SURFACE PREPARATION

**For optimal coating performance, take considerable care with surface preparation.*

Metal: Remove all oil, grease, or scale from the surface, and then blast with sharp sand or grit to finish. Use a non spherical blast medium to give a 2 - 3 mil (50 - 75 micron) profile and to achieve the following surface preparation standards or their equivalents:

Concrete: Concrete should be aged at least 28 days before coating and the surface should be clean, dry and free of form-release agents, silicone water proofers and/or curing agents. Sand blasting or scarification is recommended. Wash down old concrete to remove all residues and neutralize the pH before blasting for severe service, a second wash is recommended.

Dynesic products are self-priming on metallic substrates. However, on concrete the sealer/ primer DX-1100 is recommended to avoid bubbling caused by out gassing and to increase overall adhesion. DX-1100 primer is required on concrete that is younger than 28 days. DX-1100 primer can be applied to concrete that has aged a minimum of 7 days.

Non-chemical Service - SSPC-SP 6 Commercial Blast (NACE 3)
Intermittent Splash or Wear - SSPC-SP 10 Near White Metal Blast (NACE 2)
Immersion or Abrasive Service - SSPC-SP 5 White Metal Blast (NACE 1)

MIXING PROCEDURES

1. Empty the entire amount of hardener into the resin container.
2. Mix thoroughly until uniform in consistency, continue mixing for an additional 2-3 minutes. Pay special attention to the bottom and sides of the container to insure complete mixing. Due to the high viscosity of this product, a mechanical mixer is preferred. Use at low speed and keep the mixing blade down in the product to avoid entrapping air.

APPLICATION

Apply PANSEAL with a brush, roller or sprayer (56:1 or greater).

CLEAN-UP

Use a mixture of MIBK and Butyl Acetate (50/50) or MEK for cleanup. Skin may be cleaned with denatured alcohol, preferably ethanol.
**Refer to the MSDS for further information*.

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DYNESIC TECHNOLOGIES

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

dynesic Technologies, Inc.

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