ELASTASEAL

Product Data

ELASTASEAL Gallons
2100EG

SELECTION & SPECIFIC DATA

Generic Type
Flexible Epoxy Coating

Description
ELASTASEAL is a 100% solids, high grade, elastomeric epoxy system designed for applications requiring high elongation in moderate environments. ELASTASEAL is able to handle moisture, adjust from freeze to thaw, manage temperature changes and perform in mildly acidic and alkaline environments. ELASTASEAL provides excellent protection for cooling towers, areas of heavy vibration, expansion joints, cracks in concrete, heaving soils and surfaces that expand and contract. The UV stability of ELASTASEAL ensures many years of quality service. ELASTASEAL seals leaks immediately and permanently while preventing further corrosion. ELASTASEAL is a versatile elastomeric industrial maintenance coating and joint compound which offers good chemical resistance, UV stability, and has outstanding adhesion to a wide variety of surfaces. ELASTASEAL tolerates less than ideal surface conditions and can may be applied to both asphalt and concrete secondary containment structures. ELASTASEAL can also be applied over geotextiles to form excellent barriers over sand, dirt or rock ELASTASEAL is 100% solids, free of VOCs.

Product Features & Benefits

- *Offers excellent protection with flexibility*
- *Excellent UV stability excellent impact resistance and corrosion protection*
- *Excellent flexibility-300% elongation*
- *Liner over earth and geotextile*
- *UV stable - adjusts from freeze to thaw*
- *Works on all metal, fiberglass, stainless steel, concrete and wood surfaces*
- *100% solids, free of solvents and volatile organic compounds*
- *Excellent adhesion strength – 1,600 psi (pull-off adhesion test ASTM D 4541)*
- *Ideal for Cooling Tower Repair, Condenser Pans, Leak Repair, Tank Linings, Concrete Base Coats, Large Stress Cracks, Concrete and Metal Topcoat, Secondary Containment Structures and Expansion Joints*

Color/Part #	Light Gray - Blue, Black for special orders.
Finish	Gloss
Primer	Self-priming
Dry Film Thickness	15 – 20 mils on horizontal surfaces 6 - 10 mils on vertical surfaces
Solids Content	By Volume 100%
Theoretical Coverage	1604 ft2 at 1 mil 160 ft2 at 10 mils
Max Temp. Resistance	Dry Service 200°F (93.5°C) Spill/Splash 200°F (93°C) Immersion Service 150°F (65.5°C)

SUBSTRATES & SURFACE PREPARATION

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 up to 8%
Ammonium Hydroxide up to 25 %
Brine
Copper Sulfate
Hydrochloric Acid up to 36%
Hydrogen Sulfide
Mineral Spirits
Nitric Acid up to 10%
Potassium Hydroxide up to 50%
Sodium Hydroxide up to 50%
Sulfuric Acid up to 50%

MIXING & THINNING

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

Thinning Do not thin.

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

* *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".*

Pot Life 40°F (4°C) 3 hours
75°F (24°C) 2 hours
92°F (33°C) 1 hours 30 minutes

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.

- **Diameter of Whip:** 1/4 – 3/8" ID
- **Length of Whip:** 20 feet
- **Power Ratio Pump:** 45:1 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:** 45:1 or greater
- **Hose Length/Diameter:** 50 ft x 3/8''
- **Whip Length/Diameter:** 10 ft x 1/4''

** 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 Can be brush or roller applied. Be aware of working life when using brush or roller application.

CLEANUP & SAFETY

Cleanup Use MEK. 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 SDS 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)	2 Gallon Kit: 20 lbs. (11 kg)
Storage Temperature & Humidity	40° – 110°F (4° – 43°C) 0 – 100% Relative Humidity -
Storage	Store Indoors.

CURE SCHEDULE & RE-COAT WINDOW

Cure Time at 75°F or 24°C: Re-coat Window	12 hours
Tack Free	24 hours
Full Cure	7 days

TYPICAL PHYSICAL PROPERTIES

Container Size	2 gallon kits
Flash Point	Greater than 240°F (115°C)
Impact Strength at 80°F (26.5°C)	65 ft. lbs.
Tensile Strength	287 psi
Volatile Organic Compounds (VOC)	0 grams/liter
Mix Ratio by Volume	1:1 (Resin:Hardener)
Elongation	300%
Specific Gravity	Resin: 1.44; Hardener: 0.97
Coverage per Gallon (Theoretical)	160 sq. ft/10 mils thickness
Weight per Gallon	10 lbs.

CURE SCHEDULE & RE-COAT WINDOW

Recoat Window at 75°F (24°C)	24 hours
Tack Free at 75°F (24°C)	48 hours
Light Traffic at 75°F (24°C)	7 days
Full Cure at 75°F (24°C)	7 days

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.

Surface Prep

**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:

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