

ELASTASEAL

Product Data

ELASTASEAL Gallons
2100EG-2



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 - NO VOCs*
- *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 ft ² at 1 mil 160 ft ² 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 part A resin separately, then add part B hardener combine and power mix.

Thinning Contact Dynesic Technical Service if thinning is desired .

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 directly on the surface. 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 ELASTASEAL. 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 ELASTASEAL 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 ELASTASEAL. Wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

PACKAGING, HANDLING & STORAGE

Shelf Life Part A: 24 months at 75°F (24°C)
Part B: 24 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 -
Store Indoors.

Storage

CURE SCHEDULE & RE-COAT WINDOW

Cure Time at 75°F or 24°C: Re-coat Window 12 hours

Tack Free 12 hours

Full Cure 7 days

* Once tack free, ELASTASEAL is ready for service in most applications

* ELASTASEAL will continue to cross link and cure for 7 days to obtain a Full Cure which incorporates all of it's chemical and temperature resistant properties.

TYPICAL PHYSICAL PROPERTIES

Container Size	2 Gallon Kit
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 80 sq. ft/20 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

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DYNESIC TECHNOLOGIES

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



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