

ELASTASEAL

Technical Data

2100EG

Flexible, Leak Sealing, Corrosion Resistant Coating

SELECTION & SPECIFIC DATA

Generic Type Flexible Epoxy Coating

Description

ELASTASEAL is a 100% solids, high grade, elastomeric epoxy system designed for applications requiring elongation in moderate environments. ELASTASEAL is able to handle moisture, adjust from freeze to thaw, manage temperature changes and perform in acidic and alkaline environments. ELASTASEAL provides excellent protection for areas effected by heavy vibration, expansion joints, cracks in concrete, heaving soils and surfaces that expand and contract. ELASTASEAL seals leaks immediately and permanently while protecting against future corrosion. ELASTASEAL tolerates less than ideal surface conditions and can may be applied to both asphalt and concrete in secondary containment structures. ELASTASEAL can also be applied over geotextiles to form excellent barriers over sand, dirt or rock.

ELASTASEAL Models

Model #	Description	Amount	Coverage at 15 mils
2100EG	PANSEAL Gallons (1 gallon kit - resin/hardener)	1 Gallon	120 Square Feet

* Other sizes/amounts available on request.

Product Features & Benefits

- Waterproof - Permanent Protection w/ Flexibility
- Protects Against UV (Extreme Climate Changes), Impact, Corrosion, Harsh Chemicals & Leaks
- Ideal Flexibility -300% Elongation
- Liner Over Earth and Geotextile
- Works on All Metal, Fiberglass, Stainless Steel, Concrete, Plastic and Wood Surfaces
- 100% Solids, Free of Solvents - NO VOCs

Recommended Uses

- 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 PANSEAL

* The cleaner and well-prepared surface will result in optimal adhesion to the substrate.

Model

Description

General

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

Primer

Self priming on most surfaces, but apply Dynesic's DX-1100 Primer prior to



- Metal, Galvanized applying ELASTASEAL on concrete surfaces. Many applications can be pressure washed or even scrubbed using a degreaser such as Dynesic's DX-ETCH or with water (if there is no chance of oils or greases remaining on the surface). In more extreme conditions, or depending on surface type, obtaining an etched surface is recommended.
- Stainless Steel Topcoat products have a difficult time adhering to slick surfaces, however, ELASTASEAL's 1600 psi adhesion strength allows it to fully adhere to stainless steel. We recommend an etched profile that can be achieved by sand blasting or grinding. Keep in mind that an etched, rather than a polished profile is the goal.
- 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 with PANSEAL Paste Grade (2500PG) to fill and strengthen the substrate. Prime concrete surfaces first with Dynesic DX-1100 Concrete Primer.
- Fiberglass, Wood Clean and apply.

* To coat over previously painted surfaces contact Dynesic's 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%	

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

MIXING & THINNING

Model # Description

2100EG
Mixing: Power mix part A resin separately, then add part B hardener and power mix. If using a thinner or additive, add and mix to part A prior to adding the hardener (Part B).

Thinning: **For Sprayer:** Up to 6.5 oz/gal (5%) w/ Acetone or Xylene
For Brush: Up to 16 oz/gal (12%) w/ Acetone or Xylene
For 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 40°F (4°C) 3 hours
75°F (24°C) 2 hours
92°F (33°C) 1 hours 30 minutes

* 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 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 (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 SDS 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.

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 its chemical and temperature resistant properties.

PHYSICAL PROPERTIES

Container Size

1 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.

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.



15230 Surveyor Blvd., Addison, TX 75001
Phone: 972-692-0962, www.dynesic.com

