

SELECTION & SPECIFIC DATA**Generic Type** Flexible Epoxy Coating**Description**

Industrial and commercial coating and sealing project's that require high-strength, while being flexible, benefit from the remarkable characteristics of ELASTASEAL. ELASTASEAL is a 100% solids, high grade, elastomeric epoxy system designed for applications requiring elongation in moderate to harsh 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 joint leaks, cracks in concrete, heaving soils and surfaces that expand and contract. Tolerating less than perfect surface conditions, ELASTASEAL seals leaks immediately and permanently while protecting against future corrosion. ELASTASEAL works on all surface types including asphalt and is ideal for 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	ELASTASEAL Gallons (1 gallon kit - resin/hardener)	1 Gallon	120 Square Feet
2100CTR	ELASTASEAL Container	315g	8 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, Very Minimal Odor*

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*

PHYSICAL PROPERTIES

Color	Light Gray - Call for special colors.
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)
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 at 10 mils thickness 80 sq. ft at 20 mils thickness
Weight per Gallon	10 lbs.

SUBSTRATES & SURFACE PREPARATION

* 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	Apply Dynesic's DX-1100 Primer prior to applying ELASTASEAL on concrete surfaces.
Metal, Galvanized	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	Lining products have a difficult time adhering to slick surfaces, however, ELASTASEAL's 1600 psi adhesion strength allows it to adhere to stainless steel. It is recommended to obtain 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's 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 the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

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 24 months at 75°F (24°C)

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

Shipping Weight (Approximate)

1 Gallon Kit: 10 lbs. (5.45 kg)

4 Gallon Kit: 40 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 it's chemical and temperature resistant properties.

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.

