

ELASTASEAL Flexible Sealant — 2100 Series

Models: 2100EG, 2100CTR • Generic type: Flexible epoxy coating

Effective Date: December 2024

1. PRODUCT DESCRIPTION

Industrial and commercial coating and sealing projects that require high strength while remaining flexible benefit from the characteristics of ELASTASEAL. ELASTASEAL is a 100% solids, high-grade, elastomeric epoxy system designed for applications requiring elongation in moderate to harsh environments. It handles moisture, adjusts from freeze to thaw, manages temperature changes and performs in acidic and alkaline environments.

ELASTASEAL provides excellent protection for areas affected by heavy vibration, expansion joint leaks, cracks in concrete, heaving soils and surfaces that expand and contract. Tolerating less than perfect surface conditions, it 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. It can also be applied over geotextiles to form excellent barriers over sand, dirt or rock.

Models

Model #	Description	Amount	Coverage at 15 mils
2100EG	ELASTASEAL gallons (1 gallon kit — resin / hardener)	1 gallon	107 sq ft
2100CTR	ELASTASEAL container	315 g	8 sq ft

* Other sizes and amounts available on request.

2. FEATURES & BENEFITS

- Waterproof — permanent protection with flexibility
- Protects against UV, extreme climate changes, impact, corrosion, harsh chemicals and 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

3. RECOMMENDED USES

- Cooling tower repair
- Condenser pans
- Leak repair
- Tank linings

Also used for concrete base coats, large stress cracks, concrete and metal topcoats, secondary containment structures and expansion joints.

4. PHYSICAL PROPERTIES

Generic type	Flexible epoxy coating
Color	Light gray — call for special colors
Finish	Gloss
Primer	Self-priming (see Section 5 for concrete)
Dry film thickness	15 – 20 mils on horizontal surfaces 6 – 10 mils on vertical surfaces
Solids content by volume	100%
Theoretical coverage	1,604 sq ft at 1 mil 160 sq ft at 10 mils · 80 sq ft at 20 mils
Max temperature resistance	Dry service: 200 °F (93 °C) Spill / splash: 200 °F (93 °C) Immersion service: 150 °F (66 °C)
Container size	1 gallon kit

Flash point	Greater than 240 °F (116 °C)
Impact strength at 80 °F (27 °C)	65 ft-lb
Tensile strength	287 psi
Elongation	300%
Volatile organic compounds (VOC)	0 g/l
Mixing ratio	3:1 (A to B) by volume
Specific gravity	Resin: 1.44 · Hardener: 0.97
Weight per gallon	10 lb

5. SUBSTRATES & SURFACE PREPARATION

The cleaner and better-prepared the surface, the better the adhesion to the substrate.

Substrate	Preparation
General	Surfaces must be clean and dry. Remove all dirt, dust, oil and other contaminants.
Primer	Apply Dynesic DX-1100 Primer prior to applying ELASTASEAL on concrete surfaces.
Metal, galvanized	Many applications can be pressure washed or scrubbed with a degreaser such as Dynesic DX-ETCH, or with water where there is no chance of oils or greases remaining. In more extreme conditions, or depending on surface type, an etched surface is recommended.
Stainless steel	Lining products have difficulty adhering to slick surfaces; ELASTASEAL's 1,600 psi adhesion strength allows it to adhere to stainless steel. An etched profile achieved by sandblasting or grinding is recommended — an etched rather than 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 in accordance with ASTM D4258 (Surface Cleaning of Concrete) and ASTM D4259 (Abrading Concrete). Voids may require surfacing with PANSEAL Paste Grade (2500PG) to fill and strengthen the substrate. Prime first with Dynesic DX-1100 Concrete Primer.
Fiberglass, wood	Clean and apply.

* To coat over previously painted surfaces, contact the Dynesic Technical Service Department.

6. 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 chemical resistance list.

7. MIXING & THINNING

Mixing (2100EG)

Power mix Part A resin separately, then add Part B hardener and power mix. If using a thinner or additive, add and mix into Part A prior to adding the hardener.

Thinning

Sprayer	Up to 6.5 oz/gal (5%) with acetone or xylene
Brush	Up to 16 oz/gal (12%) with acetone or xylene
Roller	Up to 16 oz/gal (12%) with acetone or xylene

* Use of thinners other than those supplied or recommended by Dynesic may adversely affect product performance and void the product warranty, whether expressed or implied.

Pot life

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

* Do not keep the blended coating in the original container unless immediate use is planned — exothermic heat created during curing will considerably shorten the pot life. Pour the coating into a rolling tray or directly onto the surface, keeping the depth in the tray below 3/8 in.

8. APPLICATION GUIDELINES

The following are general equipment guidelines. Job site conditions may require modifications to achieve the desired results. ELASTASEAL is a 100% solids coating and may require adjustments in spray technique; wet film thickness is easily and quickly achieved. The spray equipment below has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Airless spray — plural component

Whip diameter / length	1/4 – 3/8 in. ID · 20 ft
Power ratio pump	45:1 or greater
Static mixer	2 × 1/2 in. ID × 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 × 3/8 in.
Whip length / diameter	10 ft × 1/4 in.

* For single-leg and hot-pot application, Part A resin and Part B hardener should be heated individually to 75 – 85 °F before mixing so ELASTASEAL atomizes properly. Mixed product should be sprayed within 20 minutes of mixing.

Brush and roller

Brush	Use a medium bristle brush.
Roller	Use a short-nap synthetic roller cover with a phenolic core.

Be aware of working life when using brush or roller application.

9. CURE SCHEDULE & RE-COAT WINDOW

Re-coat window at 75 °F (24 °C)	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.

10. PACKAGING, HANDLING & STORAGE

Shelf life	24 months at 75 °F (24 °C) in original unopened packaging under recommended storage conditions
Shipping weight — 1 gallon kit	10 lb (4.54 kg)
Shipping weight — 4 gallon kit	40 lb (18.14 kg)
Shipping weight — 50 gallon drums	Part A: 700 lb · Part B: 450 lb
Storage temperature	40 – 110 °F (4 – 43 °C)
Storage humidity	0 – 100% relative humidity
Storage	Store indoors. Not affected by excursions below the published storage temperatures, down to 10 °F, for no more than 14 days.

11. CLEANUP & SAFETY

Cleanup	Use MEK or acetone. In case of spillage, absorb and dispose of in accordance with applicable local 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. Test and monitor exposure levels to ensure all personnel are below guidelines.

12. ABOUT DYNESIC TECHNOLOGIES

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

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