LifeLast®
Innovation through Formulation

Primall-125 Epoxy Primer

Technical Data Sheet

Effective: 7/21/20

Product Description

Chemical Description
Amine-cured Epoxy

Usage
Primall-125 is a 99+% solids, two-part epoxy primer for use on steel, aluminum, galvanized steel, stainless steel, concrete, wood, composite plastics and masonry. Similar to Primall-160 in its performance benefits, the Primall-125 is a much faster curing system, with a recoat time of two hours at 70°F (21°C). Like the Primall-160, Primall-125 has excellent adhesion to a variety of substrates, including damp and green concrete, and bonds chemically to LifeLast polyurethanes. Application of the Primall-125 to porous substrates, like concrete and fiberglass, minimizes moisture and out-gassing considerations helping to result in a holiday free application. Unlike typical epoxy priming systems, particularly those that are fast curing, the Primall-125 has an extraordinarily long open time for chemical adhesion with LifeLast polyurethane topcoats; up to three days. The use of Primall-125 is strongly recommended when using LifeLast polyurethanes on porous substrates like concrete, wood and fiberglass. Application is accomplished by hand, using brush, roller or rag, or it can be sprayed (hot-potted) and back-rolled.

Color
Amber

Qualifications
Certified for use as a priming system for LifeLast DuraShield 210, 310 and 320 in FDA approved dry bulk applications and USDA incidental contact environments

Typical Applications
- Concrete primer
- Wood primer
- Primer for stainless and galvanized steels, and aluminum
- Fiberglass
- Concrete sealer

Product Advantages

Excellent Adhesion
Bonds to a variety of substrates

High Bond Strength
To SSD (saturated surface dry) or green concrete

Very Good Chemical Resistance
Withstands most concentrated acids and bases

Long Open Time for Recoating

Excellent Moisture Tolerance
Even under cold and humid conditions

Seals Porous Substrates
Reduces pinholes in concrete, fiberglass and wood applications

Chemical Bond with LifeLast Polyurethanes
Provides uncompromising adhesion to topcoat

No Induction Time Required

Coating Systems

Topcoats
LifeLast DuraGard and DuraShield polyurethanes

PRIMALL-125
TECHNICAL DATA SHEET

EFFECTIVE: 7/21/20

TECHNICAL DATA

PHYSICAL PROPERTIES

Test	Standard	Result
Adhesion: White Blasted Steel Concrete, Dry Concrete, Damp	ASTM D4541	 > 1500 psi Concrete Failure Concrete Failure
Hardness, Shore D	ASTM D2240	80±3

SOLIDS
99.2% by volume

MIX RATIO
1.25 : 1 (Resin : Curative) by volume
1.42 : 1 (Resin : Curative) by weight

RECOMMENDED DRY FILM THICKNESS
2-20 mils wet/dry mils, substrate dependent

COVERAGE
- Metal Substrates & Fiberglass:
  - ◊ 190-375 ft²/gallon @ 2-8 mils
- Concrete, Wood, & Masonry:
  - ◊ 75-250 ft²/gallon @ 2-20 mils

NET WEIGHT PER GALLON
- Resin: 9.4 lbs/gallon
- Curative: 8.2 lbs/gallon
- Mixed: 8.9 lbs/gallon

SHELF LIFE
12 months at recommended storage temperatures.

STORAGE
- Temperature:
  - ◊ Resin: Min 40°F (4°C) , Max 90°F (32°C)
  - ◊ Curative: Min 40°F (4°C), Max 90°F (32°C)
- Containers must be kept sealed in a dry environment.

SHIPPING INSTRUCTIONS
Unheated trailer, no special requirements. Keep dry.

CURE TIME

Temperature	Dry To Touch	Minimum Recoat Time	Maximum Recoat Time*
70°F (21°C)	3 hrs	2 hrs	<3 days

* In clean environments. An acetone wipe may be required if primer is applied in areas exposed to contaminants.

APPLICATION

SURFACE PREPARATION
Preparation requirements vary with application. Refer to the *Application Specification Sheet* for the LifeLast topcoat being applied or contact your LifeLast technical representative for assistance.

MIXING
Primall-125 is supplied in pre-measured kits. Pour the entire contents of the curative bucket into the resin bucket and mix using a "Jiffy" mixer or similar equipment. Mix thoroughly, but avoid adding air to the mixture. Scrape the sides and bottom of the bucket during mixing.

POT LIFE (70°F, 21°C)
- 100 gram mass: 20 minutes
- 2 mixed gallons: 13 minutes

SUBSTRATE TEMPERATURE
Min: 40°F (4°C); Max: 120°F (49°C); surface should be properly prepared and more than 5°F (3°C) above dew point.

AMBIENT CONDITIONS
- Min: 40°F (4°C); Max: 120°F (49°C)
- Relative humidity should be less than 85%. Ambient air temperature must be no less than 5°F (3°C) above the dew point.

THINNING
None required or recommended.

SPRAY APPLICATION
- Use 30:1 or larger, single component airless.
- 1/4" or larger spray line; 0.015-0.025" spray tip.
- Mix only what can be applied in under 10 minutes.
- Recommend back-rolled into substrate.

TOPCOAT APPLICATION
Primer may blush when curing in cold temperatures, high humidity and/or high carbon dioxide conditions. Blush must be removed prior to application of the topcoat. See the Primall-125 Application Specification for more details.

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