

Rust-Lok

High-Solid Epoxy Amine Primer

TECHNICAL DATA SHEET

High Performance Primer



Description

RainGuardPro's Rust-Lok is a high-solid epoxy amine primer designed for use with generic top coats and high-performance systems. It has excellent wetting properties to penetrate rust and marginally prepared surfaces, along with existing coatings while providing a film anchorage before applying a top coat. This avoids the need for costly stripping or blasting of steel and existing coatings to quickly recoat and protect the substrate. It locks down rust and existing coatings while reducing any sagging, ensuring the edges of the substrate or coating is encapsulated. This will reduce undercutting and peeling. It works as a tie-coat to bridge existing coatings and primers that have already reached their maximum recoat window, which avoids the need for scarification.

Features & Benefits

- Zero V.O.C. formula
- Suitable on Concrete, Masonry, and Drywall
- Primer and Tie-Coat
- High Solids – 100%
- Excellent wetting properties
- Corrosion Resistance
- Fast drying for top-coats
- Excellent adhesion to SSPC-SP 2 or 3 prepared surfaces

Color & Finish

Color	Finish
Clear	Gloss

Dry Temperature Resistance

Continuous – 190°F

Non-Continuous – 220°F

Discoloration and gloss loss at 180°F

Limitations and Considerations

- Epoxies naturally will chalk, amber and lose gloss in UV exposure
- Requires a top-coat to protect from UV exposure
- Not designed for immersion use

Coverage Rates (theoretical)

1,604 sqft per gallon applied at 1.0 mils.

802 sqsft per gallon applied at 2.0 mils

These rates do not factor in material waste from equipment and mixing. These calculations are based on solid content at mil thickness using the 1,604 sqft per gallon theoretical spreading rate.

Surface Preparation

General Use

Substrates and coatings should be dull, clean, sound and dry. Remove any contaminants that could interfere with intercoat adhesion such as dirt, oil, grease, dust and debris. SSPC-SP1 is recommended for removing contaminants without leaving a residue.

Steel

SSPC-SP 2 (Hand Tool) or SP 3 (Power Tool) cleaning is recommended.

Non-Ferrous Metals

A dense angular profile of 1.5-3 mils is required in accordance to SSPC-SP16.

Previously Coated Surfaces

Adhesion tests are recommended to confirm compatibility between the coatings. ASTM D3359 with a minimum rating of 3A is recommended.

Application Conditions

	Material	Surface	Ambient
Minimum	50°F	50°F	50°F
Maximum	90°F	110°F	110°F

Special thinning and application procedures are required outside these temperatures. Surface temperatures should be 5°F above dew point to prevent condensation.



Maximum Recoat

Surface Temperature	Days
50°F	120
75°F	60
90°F	30

If the maximum recoat time is exceeded, the coating should be sweep blasted with fine aggregate to roughen the surface.

Surface Temp.	Maximum Recoat Time Acrylics & Alkyds	Maximum Recoat Time Epoxies & Urethanes
70°F (21°C)	14 Days	30 Days
75°F (24°C)	14 Days	30 Days
90°F (32°C)	7 Days	15 Days

Drying Time

Based on 2 mil WFT

Surface Temperature	To Recoat
60°F	48hrs.
70°F	24hrs.
80°F	12hrs.
90°F	6hrs.

Pot Life

90 minutes at 75F and 50% Relative Humidity. Pot life ends when the product begins to thicken and heat up (exotherm).

Safe Handling

Use product only with adequate ventilation and/or an appropriate cartridge type respirator. Avoid contact with skin and wear protective gloves. Read the Safety Data Sheet before using.

Clean Up

Clean up promptly by washing with acetone or recommended clean up solvent before product cures. Once cured, product can only be removed from equipment mechanically. Dispose of according to local, state and federal requirements.

Precautions

This is a high gloss finish and can be slippery when wet. Use material in a well-ventilated area. Protect the work of other trades. Protect shrubbery and other plants with drop cloths. Protect automobiles and all other areas not to be coated from overspray. Remove overspray from any windows, automobiles, metal, etc. as soon as possible should it occur. To prevent permanent staining, clean spills or leaks in a timely manner.

All surfaces to be coated should be clean of any dirt and grime, efflorescence, lime run, form oils and release agents, grease, mud, excess mortar, and mold and mildew, etc. If an acid etch or an acid stain has been applied to the surface, it must be thoroughly flushed to remove all residue and then allowed to dry completely.

Do not apply to surfaces if moisture content is greater than 25% as measured with an electronic moisture meter. Do not apply materials in climates where freezing temperatures have existed prior to application. Allow adequate time for surfaces to thaw. Establish that air, surface, and material temperatures are above 50°F (4.4°C) and at least 5°F above the dew point prior to painting. Do not apply at temperatures below 50°F when temperatures are expected to drop below 50°F within 48 hours of application. Do not apply if rain, snow, or lower temperatures are expected within 48 hours. Do not apply if relative humidity is greater than 90%.

Store materials in a well-protected area at 45°- 90°F. Avoid freezing temperatures, direct sunlight, & moisture. Keep away from heat sources.



Test Data

ASTM D4541 Adhesion	3210 psi
ASTM G26 100 Weatherometer	No blistering, rusting, cracking or delamination after 2,200 hours
ASTM D2794 Direct Impact Resistance	160 in-lbs.

Technical Data

Appearance (Wet)	Clear
Appearance (Dry)	Hard, Glossy, Clear
Flash Point	>212F (ASTM D56-05)
Pot Life	90 Minutes @ 75°F
Dry-To-Touch	6 Hours
Through-Cure	24 Hours
Chemical Resistance	Determined by Top-Coats Performance
Clean Up	Acetone
VOC	0 g/L
Shelf Life	@ 75°F in proper conditions - 24 months

Warranties

Rainguard Brands, LLC guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer’s remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. Rainguard Brands, LLC makes no other warranty, expressed or implied, and all warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product. Manufacturer shall not be liable for material used outside of its shelf life. For product dating, please refer to the batch number on the product or contact Rainguard Brands, LLC.

Surface conditions and application variables are out of the control of Rainguard Brands, LLC. As such, the applicator agrees to: Follow recommended application instructions, acknowledge limitations outlined in this technical data sheet, contact the manufacturer in the event there any uncertainties, perform a test panel to confirm fit and finish before any general application. The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Rainguard Brands assumes no obligation or liability for use of this information. Contact manufacturer at 888-765-7070 before bidding to confirm warranty provisions and procedures.

SELLER’S LIABILITY UNDER THE SALE OF THIS PRODUCT IS LIMITED TO REPLACING DEFECTIVE PRODUCT. HOWEVER, IF SELLERS FAILS IN ITS ATTEMPT TO REPLACE THE DEFECTIVE PRODUCT, BUYER WILL BE ENTITLED TO A REFUND OF MONIES PAID TO SELLER UNDER THIS PRODUCT WARRANTY. SELLER IS NOT LIABLE FOR BUYER’S LOSS OF PROFITS, BUSINESS GOODWILL, OR OTHER CONSEQUENTIAL DAMAGES, DESPITE ANY FAILURE TO REPLACE THE PRODUCT. BUYER HAS ACCEPTED THIS RESTRICTION ON ITS RIGHT TO RECOVER CONSEQUENTIAL DAMAGES AS PART OF ITS BARGAIN WITH SELLER. BUYER REALIZES AND ACKNOWLEDGES THAT THE PRICE OF THE PRODUCT WOULD BE HIGHER IF SELLER WERE REQUIRED TO BE RESPONSIBLE FOR BUYER’S CONSEQUENTIAL DAMAGES.”

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