Bayblock™ Prime RI

Bayer MaterialScience

Primer
Technical Datasheet: 06/12/08

Product Description

Bayblock Prime RI is is water-based two component rust inhibitive primer. It has exceptional adhesion to metal substrates including aluminum. This two-component product provides the corrosion resistance of solvent-based epoxies with water clean up. Bayblock Prime RI provides an exceptional surface for the application of polyurethane foam or elastomeric coatings.

Application and Handling

Thoroughly mix one (1) part curing agent to four (4) parts resin by volume (1 gal to 4 gal.) If material viscosity is too high for spray equipment, dilution up to 5% may be necessary. Do not dilute more than one (1) quart for every five gallons.

Bayblock Prime RI may be applied by conventional airless spray equipment, medium nap rollers or brushes. Airless spray application is most efficient whereas rolling or brushing may be used for touch up, flashing and edge terminations or to fill voids, pinholes, holidays or cracks. CONTACT BAYSYSTEMS TECHNICAL PERSONNEL FOR SPECIFIC RECOMMENDATIONS, PRICING AND AVAILABILITY OF SPRAY AND AUXILIARY EQUIPMENT.

Apply Bayblock Prime RI only to clean, dry, sound surfaces free of loose particles or other foreign matter. Apply only to roofs that have adequate positive drainage (i.e., a minimum slope of 1/4 inch per foot). A test patch is always recommended.

It is recommended that Bayblock Prime RI be spray applied in multi-directional (north-south/east-west) passes to ensure uniform film build and to avoid pinholing. Final cured dry film thickness must be free of holidays, cracks or blisters. COATING APPLICATION MUST BE SUSPENDED IMMEDIATELY AND Baysystems TECHNICAL SERVICE PERSONNEL CONTACTED IF THE RESULTS OBTAINED ARE LESS THAN DESIRABLE.

The recommended application rate is 300 s.f. per gallon.

Limitations and Precautions

Do not apply Bayblock Prime RI when temperatures fall below 50ºF or when there is a possibility of temperatures dropping below 40ºF within a 24 hour period after application. Do not apply over wet substrates or when inclement weather is imminent. High relative humidity will retard drying.

NOTE: Application and drying of any product can reduce the temperature by as much as 20ºF due to evaporative cooling (i.e., applying water based material at 50ºF can result in a 30ºF temperature).

It is extremely important that Bayblock Prime RI is totally cured before proceeding. Total cure may be prolonged drastically by high humidity and cool ambient temperatures.

Discard unused portion of mixture after four hours. Material may appear normal, but physical properties will be adversly affected after the end of pot life.

Typical Physical Properties

Property	Value
Solids by Weight:	62 ± 2%
Solids by Volume	50 ± 2%
Theoretical Coverage :	300 s.f./gal.
Weight per gallon:	11.5 lbs./gal.
Recommended Service Temperature:	>50ºF
Number of Components:	Two
Color:	Orange
Pot Life:	4 hours

Wet Physical Characteristics

Flash Point:	>250º
Shelf Life:	12 month if properly stored
Clean Up:	Water
Thinner:	Not Recommended

Product Reactivity

Dry Time:	30 Minutes
Tack Free Time:	Remains tack normal
Recoat:	3 Hours dependant on environmental and substrate conditions

Test values may vary depending on type of equipment, equipment settings and environmental conditions.

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General Safety, Toxicity, Health Data (continued)

CONTAMINATION: Avoid moisture contamination in containers. Containers should not be released if contaminated. Do not attempt to use contaminated materials.

EYE PROTECTION: Safety glasses, goggles, or a face shield are recommended.

SKIN PROTECTION: Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing.

RESPIRATORY PROTECTION is MANDATORY! Respiratory protective equipment, impervious foot wear and protective clothing are required at all times during spray application. Contact Baysystems for a copy of the Model Respiratory Protection Program developed by API.

INGESTION: Do not take internally. It is believed that ingestion of polymeric isocyanates would not be fatal to humans, but may cause inflammation of mouth and stomach tissue.

Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

Disclaimer

The data presented herein is not intended for non-professional applicators or those persons who do not purchase or utilize this product in the normal course of their business.

The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer. The aforementioned data on this product is to be used as a guide and is subject to change without notice.

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