

BAYBLOCK[®] II/BASE

Characterization

Bayblock II coating is a technologically advanced, high-solids, fire resistant, thixotropic, acrylic elastomeric coating.

Properties / Applications

Bayblock II coating is formulated for the protection of sprayed-in place polyurethane foam, stucco, cinder blocks, metal, single ply, and with appropriate base coats, asphaltic and modified bituminous roofing. As with any product, use of Bayblock II coating must be tested (including, but not limited to, field testing) in advance by the user to determine suitability.

General Application Instructions

Bayblock II coating may be applied by medium nap rollers, brushes and by conventional or airless spray equipment. Airless spray application is the most efficient form of application. Rolling or brushing may be used for touchup, flashing and edge terminations or to fill voids, pinholes, holidays or cracks.

Apply Bayblock II coating only to clean, dry, sound surfaces that are free of loose particles or other foreign matter. A primer may be required subject to the type and/or condition of the substrate. Consult Bayseal technical service personnel for specific primer recommendations and substrate preparation procedures. Apply only to roofs that have adequate positive drainage (i.e. a minimum slope of 1/8 inch per foot).

The contents of each container should be thoroughly power mixed for ten (10) to fifteen (15) minutes before application. Thinning is not recommended. It is recommended that Bayblock II coating be sprayed in multiple coats applied in multidirectional (north-south, east-west) passes to insure uniform film build and to avoid pinholing. Backrolling sprayed material may be necessary to fill pinholes in substrate. Final cured dry film thickness must be free of voids, cracks or blisters. Coating application should be suspended immediately and Bayseal technical service personnel contacted if the results obtained are less than desirable.

Apply three (3) or more coats of Bayblock II coating at the rate of 1 - 1.25 gallons per 100 square feet per coat. As a visual aid in the application of multiple coats, alternate coats may be tinted a light to medium gray. Tinting may be necessary during application at temperatures between 50°F and 70°F to accelerate the curing process. Minimum dry film thickness shall be 25 mils.

Accentuated surface profiles, which increase total surface area, will require a proportionate increase in the amount of Bayblock II coating to satisfy specified minimum dry mil thickness. If required, roofing granules may be broadcast into coating application at the rate of 35-40 pounds per 100 square feet. No foot traffic shall be permitted on the coated surface for 72 hours after application.

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Dry Physical Properties*

Properties	Test Method	Value at 73°F
Tensile Strength	ASTM D 412	279 psi
Elongation	ASTM D 412	502 %
Reflectivity	ASTM C 1549	0.83
Emissivity	ASTM C 1371	0.89%
Fire Rating	UL 790 Class A	Combustible Deck Class B
Solids by Weight	ASTM D 6083	70 ± 2%
Solids by Volume	ASTM D 6083	55 ± 2%
Theoretical Coverage DFT		100 s.f./gal at 9.5 dry mils
Density		12 lbs/gal
Temperature Limits		-30°F to 200°F
Color		White, Tan, Gray

* These items are provided as general information only. They are approximate values and are not part of the product specifications.

Wet Physical Characteristics

Property	Value
Flash Point (ASTM D 93)	No flash to boiling
Shelf Life	12 months when properly stored
Clean Up	Water
Thinner	Not Recommended

Product Reactivity & Application*

Property	Value
Dry to Touch	4 hours
Tack Free time	12 hours
Recoat	12 - 24 hours

Note: Adhesion should not be tested within one hour of application.

"Cool Roof Rating Council" Ratings for Bayblock II with Granules

	Model	Initial	3 Yr
Solar Reflectance	White/20lbs/sq 11 BWFD	0.77	0.65
	White/25lbs/sq 11 BWFD	0.75	0.64
	White/35lbs/sq 11 BWFD	0.71	0.67
	HR White	0.83	0.79
Thermal Emittance	White/20lbs/sq 11 BWFD	0.99	0.95
	White/25lbs/sq 11 BWFD	0.99	0.94
	White/35lbs/sq 11 BWFD	0.98	0.95
	HR White	0.89	0.95

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Limitations and Precautions

Bayblock II coating is a water-based acrylic elastomeric coating which will freeze and become unusable at temperatures below 32°F. Protect from freezing during shipment and storage. Do not store material at temperatures below 50°F. Do not apply Bayblock II coating when ambient air and substrate temperatures fall below 50°F or when there is a possibility of temperature dropping below 32°F within a 24-hour period after application.

Bayblock II coating should not be applied over fresh or low melt asphaltic products. Fresh galvanized steel requires a primer or surface treatment prior to coating with Bayblock II. Please contact Bayseal technical personnel for specific primer recommendations.

Do not apply over wet substrates or when inclement weather is imminent. Total cure of Bayblock II coating requires complete evaporation of water. Cool temperatures and high humidity retard cure. Furthermore, all white or light colored coatings can cause a premature artificial dew zone during the curing process under certain climatic conditions.

This is generated as the water in the coating evaporates, cooling the white surface and attracting moisture in the form of dew. Therefore, do not apply if climatic conditions prevent complete cure before rain, dew, or freezing temperatures.

Bayblock II coating is not a vapor barrier coating and not recommended for use over most cold storage installations. Where a vapor barrier is required, contact Bayseal technical service personnel for proper selection and installation procedures.

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Bayseal representative.

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