

BAYBLOCK[®] HT/BAYBLOCK HT BASE

Characterization

Bayblock HT is a technologically advanced, high-solids, alkali resistant, thixotropic, acrylic elastomeric coating.

Properties / Applications

Bayblock HT is formulated for the protection of sprayed-in place polyurethane foam, metal, polyurea, stucco, siding, and concrete. It is a specially formulated adhesion basecoat with plasticizer migration resistance and contrasting color to help achieve proper coverage and accelerated cure. Bayblock HT coating provides an excellent protective membrane that remains flexible even under adverse conditions. Its elongation and tensile strength provides superior resistance to maintenance traffic, weather conditions, and wear.

Bayblock HT coating was specifically developed as a protective coating for sprayed polyurethane foam surfaces. The thixotropic nature of Bayblock HT coating permits uniform high build coverage, even on rough, textured or vertical surfaces, without pinholing or sagging. It also has excellent adhesion to a variety of other substrates such as primed wood, primed metal, concrete and masonry. Ponding water conditions should be avoided, if possible, as with any type of roofing material. However, Bayblock HT coating can be used in limited areas with ponded water where a primer is used in conjunction with the coating. As with any product, use of Bayblock HT coating in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.



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General Application Instructions

Bayblock HT coating may be applied by medium nap rollers, brushes and by conventional or airless spray equipment. Airless spray application is the most efficient where as rolling or brushing may be used for touchup, flashing and edge terminations or to fill voids, pinholes, holidays or cracks. Contact Bayseal technical service personnel for specific recommendations.

Apply Bayblock HT 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).

Some separation may occur during shipment and storage, therefore 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 HT coating be sprayed in multiple coats applied in multi-directional (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, pinholes, holidays, cracks or blisters. Coating application should be suspended immediately and contact your Bayseal technical service personnel if the results obtained are less than desirable.

Apply three (3) or more coats of Bayblock HT coating at the rate of one 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 is generally 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 HT 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 2370	328 psi @ 20 mils
Elongation	ASTM D 412	485% @ 20 mils
Adhesion	ASTM C 794-D 903	4.15 ± 2 pli (peel strength to foam)
Hardness	ASTM C 661	72.3
Permeance	ASTM E 96 Procedure B	7.1 @ 20 mils
Tear Resistance	ASTM D 624	112 psi
Service Temperature		-30°F to 200°F
Fire Rating	UL 790 Class A	Combustible Deck Class B
Dirt Pickup	% Resistance	99
Solids by Weight	ASTM D 1644	65 ± 2%
Solids by Volume	ASTM D 2697	55 ± 2%
Theoretical Coverage DFT		100 s.f./gal at 9.5 dry mils
Weight per gallon		11.2 lbs.
Viscosity (cps)	ASTM D 562	110 - 117 KU + 2 (Krebs units)
Swelling	ASTM D 471	8.6
Fungi Resistance	ASTM G 21	Zero Growth
Volatile Organic Compounds	US EPA Reference Method 24	0 g/L
Accelerated Weathering	ASTM G 26 (3000 hours)	Pass
Salt Spray Resistance	ASTM B 117	Pass
Wind Driven Rain	Fed. Spec. TTC-555B	Pass
Hail Resistance	FM Severe Hail Test	Pass
Low Temperature Flexibility, 1/8 mandrel	ASTM C 734	Pass
Solar Reflectance (White)	ASTM C 1549 (CRRC Testing)	81.8%
Thermal emittance	ASTM C 1371 (CRRC Testing)	0.94
Color	5400 Topcoat Basecoat	White, Gray 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	6 months when properly stored
Clean Up	Water
Thinner	Not Recommended

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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 Council" Ratings

	Model	Initial	3 Yr.
Solar Reflectance	White	0.82	0.81
Thermal Emittance	White	0.90	0.93

Limitations and Precautions

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

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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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