

## Product Description

Bayblock II is a technologically advanced, high-solids, fire retardant, thixotropic, acrylic latex coating uniquely formulated for the protection of sprayed-in place polyurethane foam, stucco, cinder blocks, metal, single ply, and modified bituminous roofing. Bayseal II provides an excellent protective membrane that remains flexible even under adverse conditions.

## Unique Properties

Unlike similar generic coatings, Bayseal II is formulated to have exceptional adhesion to polyurethane foam and a diversity of other substrates. Its proprietary formulation incorporates high-solids, 100% elastomeric acrylic resins, reinforcing laminar pigments and non-migrating fire retardants to produce a seamless, flexible, durable membrane having exceptional weatherability, ultraviolet and fire resistance. Bayblock II acts as a "breathing" membrane allowing trapped moisture vapor to pass through the film while remaining impervious to exterior mass water penetration.

## Recommended Uses

Bayblock II was specifically developed as a protective coating for sprayed polyurethane foam surfaces. The thixotropic nature of Bayblock II 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 II can be used in limited areas with pond water where a primer is used in conjunction with the coating.

## General Application Instructions

Bayblock II may be applied by medium nap rollers, brushes, or by conventional or airless spray equipment. 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 SERVICE PERSONNEL FOR SPECIFIC RECOMMENDATIONS, PRICING AND AVAILABILITY OF SPRAY AND AUXILIARY EQUIPMENT. Apply Bayblock II only to clean, dry, sound surfaces, free of loose particles or other foreign matter. A primer may be required subject to type and/or condition of the substrate. Consult BaySystems 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 II 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 BaySystems TECHNICAL SERVICE PERSONNEL CONTACTED IF THE RESULTS OBTAINED ARE LESS THAN DESIRABLE.

Apply three (3) or more coats of Bayblock II 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 is generally necessary during application at temperatures between 50°-70°F to accelerate the curing process. Minimum dry film thickness shall be 25 mils. Accentuated surface profiles, which increase total surface, will require a proportionate increase in the amount of Bayblock II to satisfy specified minimum dry mil thickness. If required, roofing granules may be broadcast into the final coating application at the rate of 35-40 pounds per 100 square feet. No foot traffic shall be permitted on the finished coated surface for 72 hours after application.

## Typical Physical Properties

Dry Properties	Test Method	Value
Tensile Strength:	ASTM D 412	265 psi ± 10 @ 73°F 902 ps1 @ 0°F
Elongation:	ASTM D 412	220% ± 10 @ 73°F 120% ± 10 @ 0°F after 1000 hours WOM 140% ± 10 @ 73°F after 1000 hours WOM 120% ± 10 @ 0°F
Fire Rating:	UL 790 Class A	Combustible Deck Class B
Solids by Weight:	ASTM D 6083	65% ± 1
Solids by Volume	ASTM D 6083	51% ± 1
Theoretical Coverage DFT:		100 s.f./gal @ 8.2 dry mils
Weight per gallon:		11.6 lbs.

## Wet Physical Characteristics

Flash Point:	ASTM D 93 No flash to boiling
Shelf Life:	12 month if properly stored
Clean Up:	Water
Thinner:	Not Recommended

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

## Product Reactivity

Dry to Touch:	4 hours
Tack Free Time:	12 hours
Recoat:	12-24 hours

## "Cool Roof Rating Council" Rating

Solar Reflectance	White/20lbs/sq 11BWFD	0.77
	White/25lbs/sq 11BWDF	0.75
	White/35lbs/sq 11BWDF	0.71
	HR White	0.83
Thermal Emittance	White/20lbs/sq 11BWFD	0.99
	White/25lbs/sq 11BWDF	0.99
	White/35lbs/sq 11BWDF	0.98
	HR White	0.89

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

Atlas Carbon Arc – ASTM 822 G 23  
In excess of 1,000 hrs. with no threatening signs of deterioration.  
Low temperature flexibility after accelerated weathering – Pass

# Bayblock™ II

## Limitations and Precautions

Bayblock II 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 II 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 should not be applied over fresh or low melt asphaltic products unless it is primed with Bayblock Prime Bleed, to protect color from bleeding through.

Fresh galvanized steel requires a primer or surface treatment prior to coating with Bayblock II, contact BaySystems technical personnel for specific primer recommendations.

Do not apply over wet substrates or when inclement weather is imminent. Total cure of Bayblock II 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 is not a vapor barrier coating and not recommended for use over most cold storage installations. Where a vapor barrier is required, contact BaySystems Technical Service Personnel for proper selection and installation procedures.

## General Safety, Toxicity, Health Data

Material Safety Data Sheets are available on this coating material. Any individual who may come in contact with these products should read and understand the M.S.D.S. In case of emergency contact CHEMTREC EMERGENCY NUMBER at 800-424-9300.

**WARNING:** Contact with skin or inhalation of vapors may cause an allergic reaction. Avoid eye contact with the liquid or spray mist. Hypersensitive persons should wear protective clothes, gloves and use protective cream on face, hands and other exposed areas.

**CLEAN UP:** Water

**CONTAMINATION:** Avoid moisture contamination in containers. Containers should not be resealed if contamination is suspected, carbon dioxide created pressure can develop. Do not attempt to use contaminated material.

**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.

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.

The sole exclusive remedy of buyer, which is to have Bayer MaterialScience replace any nonconforming product at no cost to buyer, is conditioned upon buyer notifying Bayer MaterialScience or its distributor in writing of such defect within thirty days of the discovery of such defect. Bayer MaterialScience shall not be liable for any direct, incidental or consequential damages resulting from any breach of warranty.

Bayer MaterialScience has no role in the manufacture of this product other than to supply its two components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of plural component equipment. The quality and fitness of the product is dependent upon the proper processing parameters and application of the components by the applicator. There are no warranties that extend beyond the description on the face of this instrument. Bayer MaterialScience warrants only that the two components of this product shall conform to the technical specifications published in the product literature.

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The liability of Bayer MaterialScience for any nonconformity of this product to its technical specifications shall be limited to replacement of the product.

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