



## Product Description

Bayblock QS is a technologically advanced, high solids, fire retardant, thixotropic, acrylic elastomeric coating uniquely formulated for the protection of polyurethane foam insulation and other construction surfaces. Bayblock QS offers contractors the latest in acrylic technology, a broader production window and superior coating with hundreds of thousands of square feet proven in the field.

## Unique Properties

Bayblock QS is formulated to dry extremely fast in high humidity climates and is recommended for early spring and late fall applications. Offering excellent adhesion to most substrates, its proprietary formulation incorporates high-solids, 100% elastomeric acrylic resins, reinforcing laminar pigment and non-migrating fire retardants to produce a seamless, flexible, durable membrane having exceptional weatherability, ultraviolet and fire resistance. Bayblock QS acts as a "breathing membrane" allowing trapped moisture to pass through the film while remaining impervious to exterior mass water penetration. The resultant tough, cured film provides good resistance to mechanical damage and chemical attack.

## Recommended Uses

Bayblock QS is used as a protective coating over BUR, asphalt, polyurethane foam, primed metal, primed wood, primed concrete and primed masonry. The thixotropic nature of Bayblock QS permits textured or vertical surfaces to be coated without sagging or pinholing. Ponding water conditions should be avoided, as with any type of roofing material, however, Bayblock QS can be used in limited areas with pond water where a primer is used in conjunction with the coating.

## General Application Instructions

Bayblock QS 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 QS 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 QS 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.

Apply two (2) or more coats of Bayblock QS 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 (continued)

## Typical Physical Properties

Dry Properties	Test Method	Value
Tensile Strength:	ASTM D2370	250 psi ± 5
Elongation:	ASTM D 2370	150% ± 5
Impact Resistance:	ASTM D 2794	Exceeds 160 in./lb.
Adhesion:	ASTM C 794-D 903	4.15 pli. ± 2 (peel strength on foam)
Hardness (Shore A):	ASTM D 2240	45
Permeability:	ASTM D 1653A	39 US Perms ± 3
Tear Resistance:	ASTM D 624	88 lb./in ± 3
Service Temperature:		-40° to 200°F
Fire Rating:	UL 790 Class A	Combustible Deck Class B
Dirt Pickup Resistance:		99%
Solids by Weight:	ASTM D1644	70% ± 1
Solids by Volume	ASTM D 2697	60% ± 2
Theoretical Coverage DFT:	9-10 dry mills	100 s.f./gal.
Weight per gallon:		12.0 lbs.
Viscosity (cps):	ASTM D 562	110-117 KU ± 2 (Krebs Units)
Average Solar Reflectivity:	ASTM E 903	80-82%
Average Solar Emittance:	ASTM E 903	0.90

## 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

## Product Reactivity

Dry to Touch:	30-45 minutes
Tack Free Time:	4 hours
Recoat:	12 hours

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™ QS

## General Application Instructions (continued)

a proportionate increase in the amount of Bayblock QS 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.

## Limitations and Precautions

Bayblock QS is a water-based elastomeric acrylic 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 QS 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.

Do not apply over wet substrates or when inclement weather is imminent. Total cure of Bayblock QS 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 QS 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.

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**East Office**  
2400 Spring Stuebner Road  
Spring, TX 77389  
1.800.221.3626  
Tel 281.350.9000  
Fax 281.288.6450

**West Office**  
PO Box 6460  
Phoenix, AZ 85005  
1.800.289.8272  
Tel 602.269.9711  
Fax 602.269.9115

[baysystemsspray.com](http://baysystemsspray.com)



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