Technical Data Sheet

IB Bleed Block

Acrylic Bleed Resistant Base Coat for Asphalt

IB Roof Systems®

Product Description

IB Bleed Block is a high performance, single component, water-based, bleed resistant acrylic elastomeric base coating that is designed to help reduce asphaltic bleed through and discoloration of the acrylic or silicone finish coat.

Packaging

5-Gallon Pail, 55 Gallon Drums & 275 Gallon Tote

Features and Benefits

- Excellent adhesion to modified bitumen and asphaltic substrates, galvanized steel, polyurethane foam, and concrete.
- Special bleed resistant formulation helps retard asphaltic bleed through and discoloration of finish coats
- Unique formulation allows breathable film while providing a watertight membrane and permitting trapped moisture to escape
- Low VOC, less than 50 grams/liter
- Color: Red

Product Use

IB Bleed Block is used as a base coat over granule surfaced asphalts, and modified bitumen to help reduce asphaltic bleed through and discoloration of the finish coat. May be used over aged Hypalon and PVC single ply substrates to help reduce plasticizer migration. May not be suitable for all single ply membranes, always run an adhesion test to confirm suitability.

Approvals

- Meets California SCAQMD requirements for VOCs

Ordering Information

IB Bleed Block

Item Code	Description	Size	Class
9-BBR5	IB Bleed Block Red	5-gal	55
9-BBR55	IB Bleed Block Red	55-gal	55
9-BBR275	IB Bleed Block Red	275-gal	55

Coverage Rate (approximate)

Approximate coverage rate is 1.0 to 1.5 gallons per 100 square feet (16-24 wet mils) per pass depending on substrate type and roughness. Very rough or irregular surfaces may require more material. Continuous 6 mil dry coverage is important to ensure blocking of oil migration to the surface.

Yield (1 gal/100 sq. ft.) = 16 wet mils/6.6 dry mils.

See recommendations for specific applications. Yields will vary depending upon system selected and the smoothness and absorbency of substrate.

Temperature Precautions

Temperatures affect viscosity, pumping and flow characteristics of the IB Bleed Block. Heat increases and cold decreases the flow-ability. For best results, apply when the temperatures are above 50ºF (10°C) or in weather conditions where the temperature will drop below 40°F (4°C) during the curing cycle. Do not apply this product below 40°F (4°C). Upper temperature restriction (both air and substrate) for application of Bleed Block is 110°F (43°C). If the substrate temperature exceeds 110°F (43°C), IB Bleed Block should be applied during cooler periods of the day. No product should be applied unless surface temperature is above 40°F (4°C) minimum and 110°F (43°C) maximum.

Relative Humidity Precautions

Acrylic products are moisture sensitive. Do not apply this product when it is raining or if the threat of rain exists. Do not apply it when the dew point is less than 5°F below the ambient temperature. Do not apply in conditions when the relative humidity exceeds 90%.

IB Bleed Block

Physical Properties

Property	Test Method	Typical Value
% Solids by Volume	D2697	41% ± 2%
% Solids by Weight	D1644	56% ± 2%
Viscosity	D2697	85-100 KU
Elongation	D2370	58% (initial)
Tensile Strength	D2370	614 psi (initial)
Tear Resistance (Die C)	D624	93 lbs/in
Permeance	E96	5.0
Hardness (Shore A)	D2240	50-60
Weight per Gallon	-	11.4 lbs./gal
VOC Content	EPA M24	<50 g/L
Fungi Resistance	-	Zero Rating
Water Swell	-	4.0%
Dry Time (24 wet mils @ 75°F (25°C)	-	4 hours @ 50% humidity
Recoat Window	-	6-24 hours to recoat
Cure Time	-	30 days
Shelf Life: (unopened container stored at temperatures between 60°F and 90°F.	-	18 months from date of manufacture.

Application Guidelines

Application Equipment

Airless Sprayer:

- **Output:** Minimum 30:1 fluid to air ratio / 1.0 – 3.0 gal per minute
- **Pressure:** 2,000 to 3,000 psi
- **Filter Screen:** 30 mesh or larger
- **Spray Gun:** Contractor rated for pressure, equipped with a ball-bearing swivel for ease of handling.
- **Hoses:** 3/8” min ID up to 75 ft., 1/2” min ID up to 200 ft., and 3/4” min ID over 200 ft. Use largest diameter at pump. Hoses rated to 2X maximum pump pressure. Hose lining should be compatible with coating and required cleaning materials.
- **Gun Hose**: 3/8” ID x 6 feet high pressure rated with adequate WPSI.
- **Extension:** 12” gun extension is recommended
- **Orifice Tip**: .025” to .040” diameter, wide angled fan angle of 40 to 50 degrees is recommended. A reversible self-cleaning type of nozzle is also recommended. Exact orifice size will vary with temperature of the material and ambient temperatures.

Brush: No reduction necessary. Use synthetic filament brushes. Do not over-brush as material may start to pull.

Roller: No reduction necessary. Use 1-1/4” nap synthetic rollers. Keep a wet edge to avoid pulling. Avoid rapid rolling which can cause bubbling.

Spraying: When spraying material should be at least 75°F (25°C). Before applying additional coat, the previous coat must be completely dry and cured.

Mixing

No thinning or reduction is necessary. Product may separate after shipping and storage, though it may still appear mixed. When mixing is necessary, use a ¾ horsepower or larger electric or air operated mixer with a blade capable of uniformly mixing container. Use a 3” minimum diameter mixing blade for 5-gal pails and a minimum 6” minimum diameter blade for drums. **Never mix by hand.**

Storage
Always store in cool and dry location. For best results, keep product stored above 60°F (15.6°C) or below 90°F (32°C). Do not store in direct sunlight or in temperatures above 95°F (35°C). Keep from freezing. Allow material to set at room temperature for 24 hours prior to use.

Surface Preparation
The substrate must be free of areas of ponding water, ice, snow, rain or dew, dirt, dust, grease, oil, loose granules, gravel, peeling coating and other foreign contaminants, or other debris that would inhibit adhesion of coating. Make sure roof surface is clean and completely dry. It is not recommended to pressure wash asphalt surfaces or rinse with water or cleaners. Remove surface dirt and loose granules prior to application using a power broom and/or industrial vacuum. If such conditions exist, the roof surfaces should be properly prepared and cleaned using the specified IB cleaning solution in order to receive the new coating system.

Mildew must be removed by power washing and scrubbing with a bleach solution of 1 part bleach and 2 parts water. Repeat if necessary. Rinse thoroughly and allow it to completely dry. Contact IBRS Technical Department at 800-426-1626 for recommendations regarding specific applications.

Application
Adhesion Test: Adhesion of the IB Bleed Block should always be checked. Apply 6" – 12" square of the coating and embed a piece of 1" wide IB Fabric into the coating, leaving a minimum 2" tail of the fabric exposed. Allow 2-3 days for the coating to cure and perform a 90° pull test of the fabric tail to test adhesion of the coating to the substrate.

Aged Mineral Cap & Granulated Modified Bitumen: To properly prepared substrate; apply a base coat of IB Bleed Block at the rate of 1.0 to 1.5 gallons (3.78 – 5.68 L) per 100 square feet (16 - 24 wet mils). Once completely dry, the IB Bleed Block may be coated with a finish coat of IB Acrylic or Silicone Coating.

Aged Thermoplastic (Hypalon/TPO/PVC): To properly prepared substrate; apply a base coat of IB Bleed Block at the rate of 1.0 gallons (3.78 L) per 100 square feet (16 wet mils). Once completely dry, the IB Bleed Block may be coated with a finish coat of IB Acrylic Coating or IB Silicone Coating.

Other Substrates with Asphaltic Substances: Apply IB Bleed Block as a spot treatment to the affected area at the rate of 1.0 to 1.5 gallons (3.78 – 5.68 L) per 100 square feet (16 - 24 wet mils). Once completely dry, the IB Bleed Block may be coated with a finish coat of IB Acrylic or Silicone Coating.

Full Fabric Applications: Apply a uniform layer of IB Bleed Block applied at the rate of 1.5 - 2.0 gallons (5.67 - 7.56 L) per 100 sq. ft. (24 - 32 wet mils). Embed the 40" wide fabric into the wet coating, lapping sides 2" and ends 4" and brush or roll to be wrinkle free. Apply an intermediate coat of IB Bleed Block over the IB Fabric at the rate of 1.5 - 2.0 gallons (5.67 - 7.56 L) per 100 sq. ft. (24 - 32 wet mils) to completely encapsulate the fabric. No areas of fabric should be left dry. The coating must be feathered at least 1" beyond each side of the fabric to allow water to flow over the seam.

When applying in separate applications, apply at right angles to the previous coat. Coating must be evenly applied and pinhole-free. Before applying additional coat, the previous coat must be completely dry and cured. If any contamination is present on the cured surface, it must be washed and completely dry before application of subsequent coats.

Limitations
- Refer to Substrate Preparation guidelines for proper preparation, cleaning and primer roof with any applicable bond enhancing primer before commencing with application of IB Acrylic Coatings.
- This product cures by water evaporation only. Do not attempt to apply product when weather conditions are not conducive to drying. Refer to temperature and relative humidity precautions.
- Application of materials with power spray equipment will requiring some masking and erection of wind screens to prevent overspray occurrences and damage to surrounding structures, surfaces, vehicles, property, or persons.

Clean Up
Clean up spills and spatters immediately with water. Flush all hoses, equipment, and tools with water followed by propylene glycol to prevent unit from rusting.

Disposal
Empty containers must be disposed of in an approved landfill in accordance with local, state, and federal regulations.

Caution
Avoid prolonged and repeated contact with skin. Do not take internally. Avoid eye contact as this material has adhesive properties. Refer to product Safety Data Sheet (SDS) for additional information pertaining to this product and prior to use or handling.

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