

Technical Data Sheet

IB Acrylic SW Coating

Acrylic Roof Coating *Climate Zone Restricted

IB Roof Systems®

Product Description



IB Acrylic SW is a highly reflective, single component, water-based, acrylic, elastomeric coating that is specifically designed for hot weather climates to help reduce surface temperatures thereby minimizing thermal expansion and contraction while providing exceptional resistance to UV degradation and long lasting and preventative solutions for the renewal and maintenance of many roof types.

Packaging

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

Features and Benefits

- 53% solids by volume
- Excellent adhesion to a variety of substrates
- Provides outstanding resistance to UV degradation
- Resistant to asphalt staining
- Great for coating new spray polyurethane foam
- Environmentally safe formulation
- Low VOC, less than 50 grams/liter
- Colors: White or Cool Sand

Product Use

IB Acrylic SW is a versatile, high quality elastomeric coating designed to provide a weathering surface over aged, galvanized metal panel roofs, primed smooth and granule asphaltic roofs, polyurethane foam (PUF), and aged aluminized asphaltic based roofs.

Approvals

- UL Class A Fire Classification per UL790/ASTM E108
- CRRC Listed
- California Energy Commission Title 24 Compliant (Table 110.8 C)
- Meets California SCAQMD requirements for VOCs

Climate Zone Limitation Use

IB Acrylic SW is not suitable for use and is ineligible for IB Coating Warranty if installed in mountain climates or in areas where the ambient temperature can remain below freezing for more than 24 hours. An example of the limited climate zone use area is Southern California, the Mohave Desert Region of California and Nevada (including Las Vegas), the Sonoran Desert Region of Arizona (including Phoenix-south), and the Chihuahuan Desert Region of New Mexico and Texas. Contact IBRS Technical Department at 800-426-1626 regarding specific climate zone restrictions and impact on warranty eligibility.

Ordering Information

IB Acrylic SW Coating

Item Code	Description	Size	Class
9-ASWCS5	IB Acrylic SW Cool Sand	5-gal	55
9-ASWW5	IB Acrylic SW White	5-gal	55
9-ASWCS55	IB Acrylic SW Cool Sand	55-gal	55
9-ASWW55	IB Acrylic SW White	55-gal	55
9-ASWCS275	IB Acrylic SW Cool Sand	275-gal	55
9-ASWW275	IB Acrylic SW White	275-gal	55

Coverage Rate (approximate)

Approximate coverage rate is 0.75 to 1.5 gallons per 100 square feet (12-24 wet mils) per pass depending on substrate type and roughness. Recommend two or more passes, totaling > 20 dry mil film thickness for long-term durability.

Yield (1 gal/100 sq. ft.) = 16 wet mils/8.5 dry mils.

See substrate specific IB Coating FastSpec™ and IB Coating Specification guidelines and recommendations for specific applications and installation instructions. Yields will vary depending upon system selected and the smoothness and absorptency of substrate.

IB Acrylic SW Coating - White						
Solar Reflectance / Thermal Emittance / SRI Values						
Color	Solar Reflectance (C1549)		Thermal Emittance (C1371)		SRI Value (E1980)	
White	Initial	3-Year Aged	Initial	3-Year Aged	Initial	3-Year Aged
	0.83	0.73	0.91	0.87	104	90
IB Acrylic SW Coating - Cool Sand						
Cool Sand	Initial	3-Year Aged	Initial	3-Year Aged	Initial	3-Year Aged
	0.74	0.69	0.93	0.90	90	84

Physical Properties

Property	Test Method	Typical Value
% Solids by Volume	D2697	53% ± 2%
% Solids by Weight	D1644	68% ± 2%
Viscosity	D562	19000-25000 cps
Elongation	D2370	255% (initial)
Tensile Strength	D2370	256 psi (initial)
pH	-	9-10.5
Weight per Gallon	-	12.0 lbs./gal
VOC Content	EPA M24	<50 g/L
Fungi Resistance	-	Zero Rating
Dry Time (24 wet mils @ 75°F (25°C))	-	2-3 hours @ 55% humidity
Recoat Window	-	8-24 hours to recoat
Cure Time	-	30 days
Shelf Life: (unopened container stored at temperatures between 60°F and 95°F)	-	24 months from date of manufacture.

Temperature Precautions

Do not apply this product below 50°F (10°C) or in weather conditions where the temperature will drop below 32°F (0°C) during the cure cycle (24-48 hours). Upper temperature restriction (both air and substrate) for application of IB Acrylic SW is 115°F (46°C). If the substrate temperature exceeds 115°F (46°C), IB Acrylic SW should be applied during cooler periods of the day. No coating should be applied unless surface temperature is 50°F (10°C) minimum and 115°F (46°C) maximum. The service temperature range for IB Acrylic SW varies between 32°F – 180°F (0°C – 82°C).

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 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 Acrylic SW is sensitive to standing moisture for up to 48 hours after application.

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.

Application Guidelines

Application Equipment

Airless Sprayer:

- **Output:** Minimum 30:1 fluid to air ratio / 1.5 – 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 .035" 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. A 1/2-inch nap cover gives very smooth application when coating is poured onto roof surface, then spread. 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 3/4 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.**

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. 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 to dry.

Most substrates require a bond enhancing primer and/or a compatible base coat before applying the IB Acrylic SW Coating. Contact IBRS Technical Department at 800-426-1626 for recommendations regarding specific applications.

Application

Adhesion Test: Adhesion of the IB Acrylic SW Coating 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.

Coating: Apply IB Acrylic SW Coating over the properly prepared substrate, compatible base coat or primer at the rate of 0.75 to 1.5 gallons (2.84 – 5.68 L) per 100 square feet (12 – 24 wet mils) or at the rate of 1.5 to 3.0 gallons (5.68 – 11.68 L) per 100 square feet (24 – 48 wet mils) in two to three passes of 0.75 to 1.5 gallons (2.84 – 5.68 L) per 100 square feet (12 – 24 wet mils) per pass. Do not exceed 1.5 gallons (5.68 L) per 100 square feet in a single pass. **Do not use as a base coat over asphaltic surfaces.** 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 require some masking and erection of wind screens to prevent over spray 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.

Disclaimer

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by "in-house" and independent "third party" evaluation for the purpose of classification and or approval. Acceptance, purchase, and selection of these products are the sole responsibility of the buyer or buyer's representative. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product only.

LIMITED WARRANTY/EXCLUSIONS

TO THE EXTENT ALLOWED BY LOCAL LAW, EXCEPT AS FORTH BELOW, SELLER WARRANTS THAT THIS PRODUCT SHALL BE FREE OF ANY DEFECT IN MATERIAL OR WORKMANSHIP UNDER NORMAL USE FOR A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE. IB ROOF SYSTEMS MAKES NO OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE GOODS HEREIN SOLD. THIS WARRANTY DOES NOT EXTEND TO ANY DEFECT OR FAILURE CAUSED BY MISUSE AND/OR INCORRECT APPLICATION. SINCE THE USE OF THE HEREIN DESCRIBED MATERIALS INVOLVE MANY VARIABLES IN MEANS AND METHODS OF APPLICATION, HANDLING/STORAGE AND/OR USE, THE USER IN ACCEPTING AND USING THESE MATERIALS ASSUMES ALL RESPONSIBILITY FOR THE END RESULT. THE PURCHASE OF IB ROOF SYSTEMS PRODUCT IS SUBJECT TO THE TERMS AND CONDITIONS HEREIN. NO EMPLOYEE OR AGENT OF SELLER IS AUTHORIZED TO ALTER THE TERMS HEREOF. IF THE PRODUCT IS PROVED TO BE DEFECTIVE, THE EXCLUSIVE REMEDY, THE BUYER'S SOLE REMEDY, AT IBRS'S OPTION SHALL BE TO REFUND THE PURCHASE PRICE OR REPLACE THE DEFECTIVE PRODUCT ONLY. IN NO EVENT SHALL IB ROOF SYSTEMS BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE) OR ANY OTHER CLAIMS, OR DAMAGES, INCLUDING DAMAGES WHICH MAY EXCEED THE ORIGINAL COST OF THE PRODUCTS MADE THE BASIS OF ANY CLAIM REGARDLESS OF THE LEGAL THEORY ASSERTED INCLUDING NEGLIGENCE, WARRANTY OR STRICT LIABILITY. NOTE: SOME OR ALL OF THE FOREGOING MAY NOT APPLY OR MAY BE INVALID UNDER THE LAWS APPLICABLE TO BUYER'S PURCHASE OR CLAIM.