

# Technical Data Sheet

## IB Rust Primer

Acrylic Rust Inhibitor & Metal Primer

IB Roof Systems®

### Product Description



**IB Rust Primer** is a high performance, water-based, modified acrylic rust inhibiting primer that is designed as a primer coat over a variety of metal substrates to help reduce the corrosion process and enhance the bonding of the IB finish coat.

### Packaging

5-Gallon Pail & 55 Gallon Drums

### Features and Benefits

- Water-based
- Special cross-linking formulation for greater corrosion resistance and bond enhancing properties
- Excellent adhesion to a variety of metal substrates
- Resists heat, cold, moisture and weathering
- Color: Light Gray

### Product Use

**IB Rust Primer** is used as a rust inhibitor and metal primer coat over a variety of metal substrates to help reduce corrosion and enhance the bond of the finish coat.

### Ordering Information

#### IB Rust Primer

Item Code	Description	Size	Class
9-RPG5	IB Rust Primer Gray	5-gal	55
9-RPG55	IB Rust Primer Gray	55-gal	55

### Coverage Rate (approximate)

Approximate coverage rate is 0.5 – 0.75 gallons per 100 square feet (8-12 wet mils) per pass depending on substrate type and roughness. Heavy rust areas will require an additional coat.

Yield (0.5 – 0.75 gal/100 sq. ft.) = 8 – 12 wet mils/2.8 – 4.2 dry mils.

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

### Temperature Precautions

Do not apply this product below 40°F (4°C) or in weather conditions where the temperature will drop below 40°F (4°C) during the curing cycle. Upper temperature restriction (both air and substrate) for application of IB Coating products is 120°F (49°C). If the substrate temperature exceeds 120°F (49°C), IB Coating products should be applied during cooler periods of the day. No coating should be applied unless surface temperature is 50°F (10°C) minimum and 120°F (49°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 when the dew point is less than 5°F below the ambient temperature. Do not apply in conditions when the relative humidity exceeds 90%.

### Storage

Always store in cool, well-ventilated area. Avoid storing container directly on the floor or against an outside wall. For best results, keep product stored above 60°F (15.6°C) or below 85°F (29.4°C). Do not store in direct sunlight or in temperatures above. Keep from freezing. Allow material to set at room temperature for 24 hours prior to use.

### IB Rust Primer

#### Physical Properties

Property	Test Method	Typical Value
% Solids by Volume	D2697	35% ± 2%
% Solids by Weight	D1644	41% ± 2%
Viscosity	D2197	5000 cps
Weight per Gallon	-	9.1 lbs./gal
Finish	-	Flat
VOC Content	EPA M24	66 g/L
Dry Time @ 75°F (25°C)	-	30-45 minutes, dry to touch
Cure Time to recoat	-	1-2 hours @ 70°F (21°C), 45% RH
**Shelf Life: (unopened container stored at temperatures between 60°F and 90°F.	-	6 months from date of manufacture.
Store out of direct sunlight in a cool, well-ventilated area. Avoid storing container directly on the floor or against an outside wall.		

### Application Guidelines

#### Application Equipment

##### Airless Sprayer:

- **Output:** Minimum 30:1 fluid to air ratio / 1.0 gal per minute
- **Pressure:** 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:** .017" to .025" 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 paint 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 (24°C). Before applying additional coat, the previous coat must be completely dry and cured.

#### Mixing

No thinning or reduction is necessary. Do not dilute.

#### 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.

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Ferrous substrates must be properly prepared for maximum corrosion protection and long service life. All loose rust must be removed by power washing, wire brushing, and/or sand blasting.

New steel and aluminum surfaces should be cleaned or brushed to a 2-mil profile to achieve maximum adhesion.

New galvanized or galvalume steel must be cleaned to remove any rolling oils or grease before application of IB Uni-Prime in lieu of IB Rust Primer.

Non-ferrous substrates should be wire brushed to remove all loose coatings, rust, scale, or other contaminants. Prior to coating, wipe clean with a recommended clean-up solvent. Prime with IB Uni-Prime in lieu of IB Rust Primer.

Existing coatings must be tested to determine compatibility and adhesion. Contact IBRS Technical Department at 800-426-1626 for recommendations regarding specific applications.

### Application

**Adhesion Test:** Adhesion of the IB Rust Primer should always be checked. Apply 6" – 12" square of the coating and embed a piece of 1" wide IB Fabric into the coating, covering with the desired base coat or topcoat and 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.

**Metal:** To properly prepared substrate; apply a prime coat of IB Rust Primer to the affected area, at the rate of 0.5 – 0.75 gallons (1.89 – 2.84 L) per 100 square feet (8 – 12 wet mils). Minimum recommended dry film thickness is 4 mil. A "tack" coat is not recommended.

On rough or porous surfaces, it may be beneficial to back roll or brush a first coat to work the primer into the surface with mechanical action. Follow with a full wet coat. Alternatively, rough, or porous surfaces can be given two wet full coats by spray at 0.5 gallon (1.89 liters) per 100 square feet per pass.

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 dry to the touch. If any contamination is present on the cured surface, it must be washed and completely dry before application of subsequent coats.

### Curing and Re-Coat Time:

Relative humidity will affect the application and cure time. As an example, 85% relative humidity conditions or higher will significantly slow dry times while 20% relative humidity conditions or less will tend to cause dry overspray problems. Application techniques and viscosity may have to be adjusted to ensure even results during extremes in relative humidity. Under normal drying conditions of 70°F (21°C) and 45% RH the IB Rust Primer will be ready to re-coat in 1-2 hours. Once completely dry, the substrate may be coated with IB Acrylic or Silicone Coating at specified rates.

### 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 Coatings.
- This product dries extremely rapidly on tips, brushes, and rollers. They should be cleared frequently and immersed in water when temporarily not in use, to prevent drying and tip clogging. Once dry, overspray from this product is extremely difficult to clean up or remove.
- Be sure that areas that are not to be painted are well protected from overspray. Once dry, MEK may be required for cleanup.

- 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.

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