



BLUE RIVER COATINGS

Product Data Sheet

APM-800 Metal Primer

PRODUCT DESCRIPTION

BLUE RIVER COATINGS APM-800 is an Acrylic Primer is a high quality, single component primer. Performance obtained is equal or superior to that of single component solvent primers. Acrylic Primer offers good coverage, excellent durability, and ease of application, as well as being a low VOC and EPA compliant coating.

ENVIRONMENTAL ADVANTAGES

BLUE RIVER COATINGS APM-800 Acrylic Primer is a low VOC (Volatile Organic Compound), high performance production coating. It does not contain lead or chromates. The solid and semi-solid sludge produced in spraying and clean up can be flocculated; dried and sent to a "Class B" landfill. Check with local and state regulations for proper handling.

CHARACTERISTICS

- ◆ Excellent exterior durability
- ◆ Excellent hardness/impact resistance
- ◆ Excellent mar and abrasion resistance
- ◆ Excellent adhesion on metal
- ◆ Solvent resistant
- ◆ Can be applied in a wide variety of temperature and humidity conditions without the use of retarders
- ◆ Water is used for reduction
- ◆ Water is used for clean-up
- ◆ Air dry or force curing preferred
- ◆ Can be oven baked
- ◆ Wide range of colors
- ◆ Shelf life of 1 year
- ◆ Unused paint can be returned to container
- ◆ Non-Flammable

AIR QUALITY DATA

- ◆ VOC (Volatile Organic Compounds) .87 lb/gal; 104 gm/ltr
- ◆ Free of lead and chromates

PHYSICAL DATA

- ◆ Liquid
- ◆ Specific Gravity: >1
- ◆ Vapor Density: Heavier than air
- ◆ Evaporation Rate: Slower than ether
- ◆ pH: 7-8.5
- ◆ VOC: .87 lb/gal; 104 gm/ltr
- ◆ Boiling Point: 212°F/100°C
- ◆ % Solid by weight: 41%
- ◆ % Solid by volume: 40%
- ◆ Weight per gallon: 9.6 lb/4.35 kg
- ◆ Flash Point: 150°F/65.5°C

PERFORMANCE DATA

1. Impact Resistance – Reverse/direct 180 inch pounds on steel.
2. Adhesion – ASTM D 3359, Pass (5B). No lifting of coating from substrate. Coating was applied at 1 mil dry and allowed to cure for 15 days at ambient temperatures.

3. Corrosion Resistance – ASTM B117, Good corrosion resistance – Pass at 450 hours. Coating was applied at 1 mil dry and allowed to cure for 15 days at ambient temperatures. Additional corrosion resistance can be achieved when the coated is applied with a higher film build.
 - 1 mil dry – Pass 250-300 hours
 - 2 mil dry – Pass 450 hours
 - 4 mils dry – Pass 600 hours
 - 6+ mils dry – Pass 750 hours
4. Exterior Exposure Test – Coating was applied to steel panel at 1 mil dry and allowed to cure for 15 days at ambient temperatures. Panel was positioned for southern exposure for an indefinite amount of time. After 24 months exposure, panel does not exhibit any blistering, cracking, spot rusting or delamination of film.
5. Hardness – ASTM 3363 Pencil hardness, H-HB
6. Water Submersion – 72 hours submersion in water (70°F) – No delamination, peeling, wrinkling, or blistering to unaided eye. Coating was applied to steel panel at 1 mil dry and allowed to cure for 15 days at ambient temperatures.
7. Drying Time (Air Dry): Recoat – 10 minutes at 50% humidity and 75 °F/23.9°C
8. Drying Time (Air Dry): Dust Free – 20 minutes at 50% humidity and 75 °F/23.9°C
9. Drying Time (Air Dry): Dry To Handle – 30 minutes at 50% humidity and 75 °F/23.9°C
10. Theoretical Coverage at 1 mil: 689 ft²/59.6 m² (1,604 x 43% solid by volume)

SPECIFICATIONS

1. Surface must be free of grease, oil, dirt and other foreign matter.

APPLICATION

1. Spraying with HVLP: reduce with distilled water to 20-25 seconds Zahn #2.
2. Spraying with Airless or Air Assisted Airless: Viscosity to be determined by applicator. Starting viscosity should be 30-35 seconds Zahn #3.
3. Brushing or rolling: reduce with distilled water to 30-38 seconds Zahn #2.
4. Stir contents before use. **Never shake or stir under high agitation.**
5. Shelf life: 1 year.
6. Apply with standard equipment-pressure or suction feed, air assisted airless, HVLP, LVLP or electrostatic. Atomization pressure depends on viscosity. Best performance is with an agitation pot.

CLEAN-UP WITH WATER

If the paint dries, solvents may have to be used for clean up. If the spray equipment is not stainless steel, the equipment may have to be taken apart and air-dried after cleaning.

WARRANTY

The technical data contained herein is accurate to the best of our knowledge. Blue River Coatings warrants that coatings represented herein meet their formulation standards. No other warranty is expressed or implied, including warranties of merchantability and fitness for a particular purpose. Published technical data and instructions are subject to change without notice. Contact your Blue River Coatings Representative for current technical data and instructions.