BLUE RIVER COATINGS
Product Data Sheet

UNDERCOAT PRIMER BM-316

PRODUCT DESCRIPTION

BLUE RIVER COATINGS UNDERCOAT PRIMER BM-316 is a high quality, single component primer, not requiring any catalyzing agent. Performance obtained is equal or superior to that of two-component, catalyzed epoxy systems. UNDERCOAT PRIMER BM-316 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 UNDERCOAT PRIMER BM-316 is a low VOC (Volatile Organic Compound), high performance production coating. It is considered non-hazardous by EPA definitions and 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 plastics and gel coat substrates
- Solvent resistant
- Can be applied in a wide variety of temperature and humidity conditions without the use of retarders
- Distilled water is used for reduction
- Water is used for clean-up
- Non-Hazardous
- Air dry or force curing preferred
- Can be oven baked
- Wide range of colors
- Coating will not flash rust on bare metal
- Shelf life of 1 year
- Unused paint can be returned to container
- Non-Flammable

USES

- Steel
- Aluminum
- Fiberglass
- Concrete
- Plastics
- PVC
- Truck chassis
- Automobile chassis
- Trailers
- Heavy equipment

AIR QUALITY DATA

- VOC (Volatile Organic Compounds) 2.0 lb/gal; 240 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: 2.0 lb/gal; 240 gm/ltr
- Boiling Point: 336°F
- % Solid by weight: 43.2%
- % Solid by volume: 40.62%
- Weight per gallon: 10.36 lbs
- Flash Point: 150°F CC

PERFORMANCE DATA

1. Salt Fog in Harshaw No. 22 cabinet via ASTM B117 procedures with 5% NaCl solution. Evaluation of panels follows ASTM D610, D714, and D1654.

   1512 hours
   Scribed – 1/16" dense #4. Moderate rust rundown OK – moderate rust rundown
   Unscribed – OK – moderate rust rundown
   Tested by McWhorter Technologies
2. Impact Resistance – Reverse 180 inch pounds on steel
3. Water Submersion – 72 hours submersion in water (70°F) – No delamination, peeling, wrinkling or blistering to unaided eye
4. ASTM D-3359 Tape Adhesion -- PASSES (4B-5B) cross hatch adhesion test after 72 hours submersion and allowed to air dry for 4 hours at 70% humidity and 75°F
5. Excellent adhesion to steel, plastic and aluminum
6. Drying Time (Air Dry): Recoat – 20 minutes at 50% humidity and 75°F
7. Drying Time (Air Dry): Dust Free – 10 minutes at 50% humidity and 75°F
8. Drying Time (Air Dry): Dry To Handle – 30 minutes at 50% humidity and 75°F
9. Theoretical Coverage at 1 mil: 652 ft^2 (1,604 x 40.62% solids by volume)

SPECIFICATIONS

METALS: Surface must be free of grease, oil, dirt, and other foreign matter. Oxidation material must be removed or converted with Blue River Conversion Coating.
FIBERGLASS: Surface must be free of grease, oil, dirt, and other foreign matter.
CONCRETE: Surface must be free of grease, oil, dirt, and other foreign matter.

APPLICATION

1. Spraying: reduce with distilled water to 20-25 seconds Zahn #2.
2. Brushing or rolling: reduce with distilled water to 30-38 seconds Zahn #2.
3. Stir contents before use. Never shake or stir under high agitation.
4. Shelf life: 1 year.
5. 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

Use water for cleanup. If the primer dries in the spray equipment, solvents may have to be used for cleanup. If the internal parts of the spray equipment are not stainless steel, it is recommended that the gun be disassembled and allowed to air dry.