



BLUE RIVER COATINGS

Product Data Sheet

Epoxy Primer EP-2010

PRODUCT DISCRIPTION

Blue River Epoxy Primer EP-2010 is a two package epoxy system, which shows excellent physical properties. The formulation has non-hazardous air pollutants and a low voc level of 0.82 lbs./gal. It contains corrosion inhibitive pigments. It offers superior anti-corrosive performance properties (hardness, flexibility, abrasion, and chemical resistance). This primer can be readily top coated with a variety of top coats in two to four hours.

ENVIRONMENTAL ADVANTAGES

BLUE RIVER COATINGS EP-2010 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 at 250 degrees F
- ◆ 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

- ◆ Metal
- ◆ Steel

AIR QUALITY DATA

- ◆ VOC (Volatile Organic Compounds) 0.82 lb/gal; 36 gm/ltr
- ◆ Free of lead and chromates

PHYSICAL DATA

- ◆ White Liquid
- ◆ Specific Gravity: >1
- ◆ Vapor Density: Heavier than air
- ◆ Evaporation Rate: Slower than ether
- ◆ pH: 7-8.5
- ◆ VOC: 0.82 lb/gal; 36 gm/ltr
- ◆ Boiling Point: 212°F/100°C
- ◆ % Solid by weight: 62.7
- ◆ % Solid by volume: 58
- ◆ Weight per gallon: 10.37 lb/4.703 kg

PERFORMANCE DATA

1. Impact Resistance – Reverse/direct 120/160 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. Pencil Hardness – ASTM D-1186 = F
4. Excellent Salt Spray Resistance – ASTM B117 – 2000 hours
Blister Rating ASTM D-714 10 (none)
Scribe Creep ASTM D-1654 1-3 mm.
5. Exterior Exposure Test – Coating was applied to steel panel at 2 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.
6. DI Water Resistance ASTM D-870 – 83 days submersion in water (70°F) – No delamination, peeling, wrinkling, or blistering to unaided eye. Coating was applied to steel panel at 2 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: 730 ft²

SPECIFICATIONS

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

MIXING DIRECTIONS

EP-2010 is a two part system. Stir both parts thoroughly. Mix 4 parts of Part A to 1 part of Part B. Mix until uniform in viscosity, at least 3 minutes. Allow to sweat-in for ten minutes. Viscosity may be adjusted, after mixing A & B, with water if necessary.

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.
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.

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.