

# BURKE INDUSTRIAL COATINGS

## PRODUCT DATA SHEET

### ALLOY-BOND 316 EPOXY POWDER COATING STAINLESS SILVER METALLIC

**Product number:** 19-2473

**Powder type:** USDA Epoxy pigmented with 316L Stainless Steel Flake

**Specific gravity:** 1.9

**Suggested K.V. setting:** 45 KV

**Application:** Due to the density of the Stainless Steel Flake in Alloy Bond-316, it is best applied through a fluidized hopper and Corona type gun. When applying utilizing a box shaker and Tribo type gun, reduce the flow rate of powder to maintain a fine mist at the gun tip. Slower application through these types of systems results in a better charge on the powder and a more uniform film on the coated parts.

### **CURED FILM CHARACTERISTICS**

**Tested at 2.0-2.5 mils on a 3 x 5 Q panel**

**Cure time:** 10 minutes at 400°F. For metal the same thickness as a Q Panel.  
Thicker metals require longer cure.

**60° Gloss:** 95+

**Forward Impact (ASTM D2794-93):** 160 inch pounds

**Reverse Impact (ASTM D2794-93):** 160 inch pounds

**Salt Spray (ASTM B-117):** 2000 hours

**Pencil Hardness (ASTM D-3363):** 3H

**Cross Hatch Adhesion (ASTM D-3359, Method B):** Rates 5B or 100% Adhesion  
on steel and aluminum

**Coverage @ 2.0 mils:** 50 sq. ft. per pound

**Storage:** Store in a cool environment, less than 70°F.

**Shelf Life:** 6 to 8 months

## CHEMICAL RESISTANCE CHART

### ALLOY-BOND 316 BBS EPOXY POWDER COATING

Cold, 70°F

Hot, 180°F

#### **ACIDS:**

|                       |   |   |
|-----------------------|---|---|
| Acetic 10%            | F | N |
| Acetic, Glacial       | N | N |
| Benzene Sulfonic, 10% | E | E |
| Benzoic               | E | E |
| Boric                 | E | E |
| Butyric, 100%         | P | N |
| Chloracetic, 10%      | E | E |
| Chromic               | F | N |
| Citric, 5%            | E | G |
| Citric, 10%           | E | N |
| Fatty Acids           | E | E |
| Formic, 90%           | E | F |
| Hydrobromic, 20%      | G | G |
| Hydrochloric, 20%     | E | G |
| Hydrocyanic           | E | E |
| Hydrofluoric, 20%     | G | G |
| Hypochlorous, 5%      | F | N |
| Lactic, 5%            | F | N |
| Maleic, 25%           | E | E |
| Nitric, 30%           | G | P |
| Oleic                 | E | E |
| Oxalic                | E | E |
| Phosphoric            | G | F |
| Picric                | G | F |
| Stearic               | E | E |
| Sulfuric, 50%         | G | F |
| Sulfuric, 80%         | F | N |
| Tannic                | E | E |

#### **ALKALIES:**

|                     |   |   |
|---------------------|---|---|
| Ammonium Hydroxide  | E | G |
| Calcium Hydroxide   | E | E |
| Potassium Hydroxide | E | E |
| Sodium Hydroxide    | E | E |

**ACID SALTS:**

|                   |   |   |
|-------------------|---|---|
| Aluminum Sulfate  | E | E |
| Ammonium Chloride | E | E |
| Copper Chloride   | E | E |
| Iron Chloride     | E | E |
| Nickel Chloride   | E | E |
| Zinc Chloride     | E | E |

**ALKALINE SALTS:**

|                     |   |   |
|---------------------|---|---|
| Barium Sulfide      | E | E |
| Sodium Bicarbonate  | E | E |
| Sodium Carbonate    | E | E |
| Sodium Sulfide      | E | E |
| Trisodium Phosphate | E | E |

**NEUTRAL SALTS:**

|                    |   |   |
|--------------------|---|---|
| Calcium Chloride   | E | E |
| Magnesium Chloride | E | E |
| Potassium Chloride | E | E |
| Sodium Chloride    | E | E |

**SOLVENTS**

|                          |   |   |
|--------------------------|---|---|
| Alcohols                 | E | E |
| Aliphatic Hydrocarbons   | E | E |
| Aromatic Hydrocarbons    | E | E |
| Chlorinated Hydrocarbons | F | F |
| Ketones                  | F | F |
| Ethers                   | F | F |
| Esters                   | F | F |
| Gasoline                 | E | E |
| Carbon Tetrachloride     | E | E |

**ORGANICS**

|                   |   |   |
|-------------------|---|---|
| Aniline           | G | P |
| Benzene           | E | E |
| Formaldehyde, 37% | E | G |
| Phenol, 5%        | G | F |
| Mineral Oils      | E | E |
| Vegetable Oils    | E | E |
| Chlorobenzene     | G | P |

**KEY TO ABOVE SYMBOLS:**

E = (Excellent performance) - No attack

G = (Good performance) - No appreciable attack

F = (Fair performance) - Some attack, but usable in some instances

P = (Poor performance) - Attacked, not recommended for use

N = (Not recommended) - Rapidly attacked, not recommended for use

**IMPORTANT INFORMATION**

The information contained in this data sheet is accurate to the best of our knowledge and tests. The information contained herein is made without guarantee or representation as to results. We recommend that you make accurate tests in your plant or laboratory to determine if this product meets all of your requirements. Our only obligation shall be to replace any defective materials that may be supplied by us. We assume no liability for damages of any kind and the user accepts the product "as is" and without warranties, express or implied. The suitability of the product for an intended use shall be solely up to the user.

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