BURKE INDUSTRIAL COATINGS

PRODUCT DATA SHEET

ALLOY-BOND 316 POLYESTER POWDER COATING

Product number: 19-2087

Powder type: Exterior Grade Polyester pigmented with 316L Stainless Steel Flake

Specific gravity: 1.3

Suggested K.V. setting: 45

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 1.8 to 2.5 mils on a 3 x 5 Q panel

Cure time: *15 minutes at 400ºF. For metal the same thickness as a Q Panel. Thicker metals require longer cure.*

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60° Gloss: *95+*

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

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

Salt Spray (ASTM B-117): *1000 hours*

Pencil Hardness (ASTM D-3363): *2H*

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

Coverage @ 2.0 mils: *74 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 vs. HARD ANODIZING

1 - Excellent 2 - Good 3 - Fair 4 - Not Recommended T - Test

	Hard Anodized	**Alloy Bond 316 Polyester 316 Stainless Powder Coat**
WATER		
Fresh	1	1
Salt	1	1
SOLVENTS		
Alcohols	2	1
Aliphatics (M.V.M.,&P, etc.)	1	1
Aromatics (xylene, toluene)	1	1
Carbon Tetrachloride	1	1
Ethylene Glycol	1	1
Ketones	1	1
Trichlorethylene	1	1
ORGANIC ACIDS		
Acetic 10%, pH 2.9	*4*	*3**
Fatty	*4*	*1*
Citric 10%, pH 2.4	*4*	*1*
Lactic, Dilute, pH 2.4	*3 - 4*	*3**
Lactic, Concentrated, pH 2.0	*4*	*3**
Oleic 100%	*4*	*1*
Oxalic 20%, pH 1.6	*4*	*1*
Picric 10%	*4*	*2*
INORGANIC ACIDS:		
Hydrochloric 20%, pH 1.5	4	2
Hydrochloric 5%, pH 2.5	4	1
Phosphoric 65%, pH 1.5	4	2
Phosphoric 50%, pH 1.5	4	2
Phosphoric 20%, pH 1.4	4	2
Sulfuric Conc. (battery acid)	4	T
Boric (Sat. Sol.), pH 5.2	3	1

ACID SALTS

Aluminum Nitrate 10%	3	1
Ammonium Chloride	4	1
Copper Sulfate	4	1
Ferric Nitrate	4	T
Zinc Sulfate	3 - 4	T

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Ammonium Hydrox. 28%,pH 11.4	4	2
Ammonium Hydrox. Dilute pH 10.7	4	2
Calcium Hydrox. (Lime), pH 12.4	4	3
Potassium Hydrox. 50% pH 14	4	3
Potassium Hydrox. 25%, pH 13	4	2
Potassium Hydrox. 10%, pH 14	4	2
Sodium Hydroxide 50%, pH 14	4	.3
Sodium Hydroxide 20%, pH 13	4	2
Sodium Hydroxide 5%, pH 12	4	2
Sodium Hypochlorite (Bleach)	4	2

ALKALINE SALTS:

Barium Sulfide	3	1
Sodium Bicarbonate	4	1
Sodium Carbonate	4	1
Sodium Sulfide	3	1
Trisodium Phosphate 10%	3	2

Gases

Barium Sulfide	4	T
Chlorine, dry	2	T
Hydrogen Chloride	4	T
Sulfur Dioxide, dry	3	T
Sulfur Dioxide, wet	4	T
Chloride, wet	3	T

Miscellaneous Organic Materials

Cutting Oils	1	1
Detergents	1	1
Gasoline (unleaded/regular)	1	1
Hydraulic Fluid	3 - 4	1
Lubricating Oils	1	1
Refinery Crudes	3	2
Sewage	3	1
Skydrol 500	T	T
Sugar Liquids	2	T
Waste Sludges	T	T

Misc. Exposure

General Weathering	1	1
Indus. Fumes: Salt Atmosphere	1	1
Mold, Mildew	1	1
Light Abrasion	1	1
Heavy Abrasion	2	2

* SOME ATTACK, BUT USABLE IN SOME INSTANCES

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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