

## *Epoxy Polyester Powder Coating Powders*

### **PRODUCT DATASHEET**

Epoxy Polyester Powder Coating Powders contains Epoxy Resin as well as Polyester Resin. Both these Resins are mixed together in various proportions depending on the properties required of the Final Product.

The Product is closely following properties of Epoxies but offers good exterior durability compared to Pure Epoxy. These system often known as Hybrid System is offering good aesthetic appeal along with functional properties of epoxy powder coatings. It offers ultra smooth and thin films powder coatings.

Hybrid System/Epoxy Polyester Powder Coating is used where average Chemical Resistance or Mechanical Properties is required, mainly for Interior Use on Indoor appliances and household items, interior lightings and domestic appliances. Product is available in Smooth finish with Matt/Satin/Glossy, Structure and Texture effect.

A pre-requisite for good physical properties of a coating is curing in the range of 180°C for 15 min (Object Temperature).

### **Advantages of Epoxy Polyester Powder Coatings**

Good Mechanical Properties  
Good Corrosion Resistance  
Good Humidity Resistance  
Good Aesthetic Appeal  
Super Smooth and thin film coating  
Good Recoat-ability and Good Storage stability

### **Product Specification**

Sr.	Property	Range	Unit	Test Method
1	Gloss	15 – 95	%	ASTM D-523
2	Flexibility	<1/8 "	Inch	ASTM D-522
3	Adhesion (Cross-cut)	<GT0	-	ASTM D-3359
4	Scratch Resistance	3 to 4	Kgs	-
5	Impact Resistance	50 to 100	Kgs-cm	ASTM D-2794
6	Erichsen Indentation	8 to 10	mm	-
7	Humidity Resistance	>500	Hrs	ASTM D-2247
8	Salt Spray	>500	Hrs	ASTM B-117
9	Specific Gravity	1.3 to 1.8	-	ASTM D-792
10	Pencil Hardness	2H to 4H	-	ASTM D-3363

### **Application**

- 1) Household Items
- 2) Domestic Furniture
- 3) Indoor Shelving
- 4) Office Equipments
- 5) Interior Lighting Fittings
- 6) Computer Parts and Boxes
- 7) Home Appliances
- 8) Hospital Furnitures
- 9) Bathroom Fixtures
- 10) Stoves, Washers / Dryers
- 11) Fire Extinguishers
- 12) Oil/Air Filters

### **Storage Conditions**

The Powder should be stored indoors in the original, unopened and undamaged box in a dry place at storage temperatures below 30°C at 50 % Relative Humidity. Exposure to direct sunlight should be avoided.

### **Shelf Life**

Under the stipulated storage condition of Powder the Shelf Life is 9 to 12 months from the date of manufacturing. After this period it is recommended that powder should be tested by applying practically on the metal.

### **Application procedure**

Coating with Electrostatic Gun/Corona Spray at voltage of 60 to 75 Kv on pretreated metals, stoving (cure) in air circulated oven or IR Oven.

### **Industrial Hygiene**

Powder handling should always be done in conjunction with proper dust collection and personal protective equipment. Please refer to the Material Safety Data Sheet for more detailed information.

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