

Pure Epoxy Powder Coating Powders

PRODUCT DATASHEET

Epoxy Powder Coating Powders contains Epoxy Resin also known as Poly-Epoxides which is a class of reactive pre-polymers and polymers which contains epoxide group. This epoxide resin is mixed with hardners, additives and pigments to form a Pure Epoxy Powder Coating Powder of desired color and various Finishes viz. smooth in Matt and Satin or Fine Textures.

Pure Epoxy Powder Coating is used where Excellent Chemical Resistance with higher Mechanical Properties is required, mainly for Interior Use or Indoor Purposes where there is no Direct Sunlight or may be in Industrial Plants or Places where higher chemical resistance is required. This Powder has excellent adhesion properties.

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 Pure Epoxy Powder Coatings

Excellent Chemical Resistance Excellent Mechanical Properties Excellent Corrosion Resistance Excellent Adhesion Properties Excellent Humidity Resistance Excellent Mar and Chip Resistance Good Recoat-ability and Good Storage stability

Product Specification

Sr.	Property	Range	Unit	Test Method
1	Gloss	10 – 45	%	ASTM D-523
2	Flexibility	<1/8 ″	Inch	ASTM D-522
3	Adhesion (Cross-cut)	<gt0< td=""><td>-</td><td>ASTM D-3359</td></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) Automobile Components
- 2) Electric Motor Covers
- 3) Switch Gear Boxes
- 4) Office Equipments
- 5) Textile Machinery
- 6) Computer Parts and Boxes
- 7) Home Appliances & Glass Bottles
- 8) Hospital Equipments
- 9) Wheels and Rims
- 10) Bathroom Fixtures
- 11) Industrial Machine Pars and Fixtures
- 12) Chemical Plants Fixtures/Furniture/ Motor Covers etc..

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.

<u>Shelf Life</u>

Under the stipulated storage condition of Powder the Shelf Life is 1 Year 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 Corona Spray/Electrostatic Gun at voltage of 60 to 75 Kv on pretreated metals, stoving (cure) in air circulated oven or IR Oven. Tribo Powder available on request

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.

The information and recommendations in this publication are to the best of our knowledge and application parameters.

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