



*Polybond Plus Series -
Pure Polyester Architectural Powder Coating Powders*

PRODUCT DATASHEET

Pure Polyester Coating Powders contains Polyester Resin and TGIC as a hardner. This Powder is offering excellent whether-ability hence it protects film from UV radiation caused by Sun Light and does not allow chalking taking place hence retains colors better. It also protects film from the moisture and stop penetration of water in to the film and maintain the aesthetic appeal of the coatings.

Due to excellent flow of powders it forms very much even film during baking of powders and forms excellent cured finish. It has good edge coverage and other normal properties of powder coating like mechanical properties and marr resistance. Product is available in Smooth finish with Satin/Glossy, Structure and Texture effect.

A pre-requisite for good physical properties of a coating is curing in the range of 200°C for 10-12 min (Object Temperature).

Advantages of Pure Polyester Powder Coatings

Excellent Whether-ability
Excellent UV Resistance
Excellent Flow of Powders
Excellent Adhesion Properties
Excellent Humidity Resistance
Excellent Aesthetic Appeal
Super Smooth and thin film coating

Product Specification

Sr.	Property	Range	Unit	Test Method
1	Gloss	45 – 90	%	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
11	QUV Exposure	>300	Hrs	ASTM D-2565

Application

- 1) Aluminum Extrusions
- 2) Office Equipments
- 3) Aluminum Fixtures
- 4) Farm Equipments
- 5) Exterior Lighting Fittings
- 6) Home Appliances
- 7) Hospital Furnitures
- 8) Fire Extinguishers
- 9) Generator Sets
- 10) Children Playground Equipements
- 11) Outdoor Furnitures
- 12) Railings and Gates

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