

GP ENVIROCOAT 500

Pure Polyester Powder



Product Description

GP Envirocoat 500 is a thermosetting powder based on pure polyester resin. It is specifically designed for the outdoor environment, offering excellent UV resistance including gloss retention & resistance to discoloration.

Corrosion protection	★★★
Chemical resistance	★★
Mechanical properties	★★★★
UV resistance	★★★★

Product Range

GP Envirocoat 500 powders are available in glossy, semi-glossy, matt, texture & structure finish, in a range of standard shades or a customized shade to suit the end user's requirement. For exact shade requirements, please contact your local GP office.

Substrates & Surface Preparation

Type of Substrates	Surface Preparation
Steel	Iron phosphating/Low weight zinc phosphate
Aluminium	Chromatization

Powder Characteristics

Powder Properties	Characteristics
Powder Type	Pure Polyester
Partical Size	Suitable for Electrostatic Spray
Specific Gravity	1.4 to 1.8 g/cm ³ depending upon color
Storage Condition	Dry & cool conditions below 30°C
Shelf Life	12 months
Stoving Schedule	10 to 15 minutes at 200°C

Performance Properties

Property	Test Standard	Results
Adhesion	ASTM D3359	GT-0 to pass
Erichsen Cupping	ISO 1520	6 - 8 mm to pass
Impact Test	ASTM D2794	60 - 120 kg/cm (Direct/Indirect) to pass
Flexibility Test	ASTM D522	6.25 mm to pass

Application Conditions

Test Method	Application Parameters
Electrostatic Powder Spray	60 - 100 KV
DFT Application	50 - 70 microns

Chemical & Durability Tests

Property	Test Standard	Test Duration	Results
Resistance to Neutral Salt Spray	ASTM B117	500 Hours	No blistering, 3 mm creepage from scribe
Resistance to Humid Atmospheres	ISO 6270-2	500 Hours	No blisters or other failures
Resistance to QUV A - Test	ASTM G-154	500 Hours	No color fading, no gloss reduction
Chemical Resistance	-	-	Generally excellent resistance to most acids, alkalis & oils at normal temperatures

Note:

- Above table is for indication purpose only
- Data is based on assumption of pretreatment of seven tank phosphating
- Creepage considered is from either side of the scribe as per ASTM B117

Typical Application

Air Conditioner Cabinets, Farm Equipments, Aluminium Extrusions, Automobile Accessories, Garden Furniture, Sport Equipments, Play Ground Equipment, etc.

Pack Size

10 KG
20 KG

Safety Precaution

Please consult the Material Safety Data Sheet (MSDS).

Disclaimer:

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