

## GP ENVIROCOATS 200 Pure Epoxy Powder



### Product Description

**GP Envirocoats 200** is a thermosetting powder based on epoxy resin that provide good balance between mechanical properties and visual appearance along with superior chemical resistance properties.

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

### Product Range

GP Envirocoats 200 powder is available in glossy, semi-glossy & matt 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 Epoxy  |
| Partical Size     | Suitable for Electrostatic Spray                  |
| Specific Gravity  | 1.4 to 1.8 g/cm <sup>3</sup> depending upon shade |
| Storage Condition | Dry & cool conditions below 30°C                  |
| Shelf Life        | 12 months   |
| Stoving Schedule  | 10 to 15 minutes at 180°C                         |

### Performance Properties

| Property         | Test Standard | Results                                  |
|------------------|---------------|--|
| Adhesion         | ASTM D3359    | GT-0 to pass                             |
| Erichsen Cupping | ISO 1520      | 4 - 6 mm to pass                         |
| Impact Test      | ASTM D2794    | 60 - 150 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     | 1000 Hours    | No blistering, 3 mm creepage from scribe  |
| Resistance to Humid Atmospheres  | ISO 6270-2    | 1000 Hours    | No blisters or other failures   |
| 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

Dielectric Applications, Wire Goods, Switch Gears, Laboratory Furniture, Machine Components, Power Tools, Tool Boxes, Safety Equipment, etc.

## Pack Size

10 KG  
20 KG

## Safety Precaution

Please consult the Material Safety Data Sheet (MSDS).

## Disclaimer:

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