

GP ENVIROCOAT 205 ZR

Epoxy Zinc Rich Powder

Product Description

GP Envirocoat 205 ZR is a zinc rich epoxy primer designed to impart excellent corrosion protection. For optimal corrosion and attractive surface appearance, this product should be used in combination with suitable polyester coating. This product is ideal for usage in C3-C4 systems as per ISO 12944.

Product Features

| | |
|------------------------|-------|
| Corrosion Resistance | ★★★★★ |
| Chemical Resistance | ★★★★ |
| Intercoat Adhesion | ★★★★ |
| Resistance to Moisture | ★★ |

Product Range

GP Envirocoat 205 ZR powder is available only in matt finish in a medium grey shade.

Pretreatment Details

The overall quality of the coating system is typically dependent on the type & quality of pretreatment & the top coat system.

Powder Characteristics

| Powder Properties | Characteristics |
|-------------------|-----------------------------------|
| Powder Type | Epoxy Zinc Rich |
| Particle Size | Suitable for Electrostatic Spray |
| Specific Gravity | 3 to 4 g/cm ³ |
| Storage Condition | Dry & Cool conditions below 30 °C |
| Shelf Life | 6 months |

Substrates & Surface Preparation

| Type of Substrates | Surface Preparation |
|-------------------------|--|
| Mild Steel & Cast Steel | Grit Blasting Sa 2.5 in accordance with ISO NF EN 8501-1. Roughness: Rz 42-84 µm / Ra 6-12 µm |

*Refer to ISO 12944 (Classification of Environments)

Application Conditions

| Test Method | Application Parameters |
|----------------------------|------------------------|
| Electrostatic Powder Spray | 60-90 KV |
| DFT Application | 50-70 micron |
| Current | 40-60 ampere |

Top Coat Applications

| Chemistry | Recommendation |
|-----------|---|
| 300 | Top coat should be overcoated with the same application condition within 12 hours of applying primer. Ensure there is no formation of white rust during top coat application. |
| 500 | Top coat should be overcoated with the same application condition within 12 hours of applying primer. Ensure there is no formation of white rust during top coat application. |

Stoving Schedule

| Type | Object Temperature (°C) | Time (minutes) |
|--------------|-------------------------|----------------|
| Full Cure | 180 | 12 |
| | 200 | 8 |
| Partial Cure | 180 | 6* |
| | 200 | 4* |

*The inter coat adhesion between primer and top coat must be verified after complete curing.

Performance Properties

| Property | Test Standard | Results |
|------------------|---------------|--|
| Adhesion | ASTM D3359 | GT-0 to pass |
| Erichsen Cupping | ISO 1520 | 3-4 mm to pass |
| Impact Test | ASTM D2794 | 40-80 kg/cm (Direct/Indirect) to pass |
| Flexibility Test | ASTM D522 | 6.35 mm to pass |

Protective Powder Coating System

| Corrosion Category | Primer | Top Coat |
|--------------------|---------------|--------------|
| C3 | 60-80 micron | 70-80 micron |
| C4 | 80-100 micron | 70-80 micron |

Typical Application

Compressors, Motors, Agriculture Equipment & Machinery, Steel Fences, etc.

Pack Size

20 KG

Safety Precaution

Please consult the Material Safety Data Sheet (MSDS).

Disclaimer:

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