



ZINC RICH EPOXY POWDER COATING GPC – ZINCOPRIM

PRODUCT DESCRIPTION

GENESIS ZincoPrim is an epoxy-based zinc rich powder coating developed as a primer coat on phosphated or blast-cleaned steel objects and structures. ZincoPrim provide exceptional resistance to corrosion, superior mechanical properties and inter-coat adhesion, and very good degassing properties along with excellent edge coverage and flow.

APPLICATION AREAS

- Steel Building structures
- Agricultural machinery
- Steel fences, outdoor public area furniture
- Gas Cylinders
- Steel items such as light poles in coastal areas

POWDER APPLICATION

GENESIS ZINCOPRIM can be applied by automatic corona Electrostatic Powder Spray – 40 to 100 KV. Over spray powder can be reclaimed using suitable equipments and recycled through the coating systems.

PRODUCT KEY FEATURES

- ✓ ZincoPrim designed as primer to give excellent adhesion to the steel substrate as well as a good intercoat adhesion.
- ✓ Excellent corrosion protection & chemical resistance
- ✓ High mechanical performance.
- ✓ Outstanding degassing properties
- ✓ Excellent electrostatic charging and high transfer efficiency
- ✓ Environmentally friendly coating
- ✓ Suitable topcoat products are GENESIS MX for interior applications, and GENESIS PP, PA, and PS for exterior durable applications.

POWDER PROPERTIES

PROPERTY	DESCRIPTION
Chemistry	Pure Epoxy
Colour	Grey
Gloss Levels	50 (+/-) 15
Specific gravity	3.0 +- 0.1
Curing schedule	200 °C / 6Min & 180 °C / 10Min (metal temp.) Its advised to partially cure ZincoPrim before applying topcoat. Normally 3-5min @180C and 2-3min @ 200C metal temp. The topcoat must be applied within the same shift after application of primer to ensure optimum inter-coat adhesion.
Particle size	55 (+/-) 5% above 32-micron sieve
Storage	Dry ventilation conditions below 33°C
Shelf life	12months
Packing	20Kg cartons (600kg on pallet wrapped with sheet)

PRE-TREATMENT

The quality of the end coating system mainly depends upon the type and the quality of the pre-treatment and the topcoat. As per corrosion resistance requirement, different types of pre-treatments are recommended.

- Medium resistance/Class C3 – Iron phosphate or blast cleaning SA2.5 profiles 40-80u
- High Resistance/Class C4 – Zinc phosphate or blast cleaning SA2.5 profiles 40-80u
- Very High Resistance/Class C5 – Blast cleaning SA2.5 profiles 40-80u with Zinc phosphate

GENESIS POWDER COATING PVT LTD



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COATING PROPERTIES

Test Description	Test Standard	Results
Cupping Test	ISO-1520	3mm Pass (No surface cracking)
Impact Test	ISO-6272	40kg/cm (No surface cracking)
Adhesion	ISO-2409	GT-0 – 2mm
Salt Spray – NaCl 5%, 1000hours	ASTM B117	No blistering & loss of adhesion No undercutting
Humidity Resistance, 1000hours	ISO6270-2	No permeation exceeding 1mm on both sides of the scratch

**The above test results are at DFT of 60-80microns when typically tested on 0.8mm CRS pre-treated panel*

STORAGE & SHELF LIFE

Store Powder in a dry & cool condition. Do not exceed 33°C. Keep powder in packed condition if not in use to avoid contamination and moisture. Do not mix with any other powder. Shelf life - 12 months, in original packing with proper storage conditions.

The information in this Data Sheet is the outcome of GPC research work and experience. The information contained herein is believed to be accurate but cannot be taken as a formal warranty. We reserve the right to change data without prior notice

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