



PURE EPOXY POWDER COATING GPC – EP SERIES

PRODUCT DESCRIPTION

GENESIS Pure Epoxy – EP Series Powder Coating suitable for interior decorative and functional usage only; it has excellent chemical and mechanical properties with high adhesion to the metal substrates.

APPLICATION AREAS

Indoor metal furniture and fixtures.

Electric items – cabinets, indoor light frames, cable trays, inverters

Appliances industry - washing machines driers, ceiling fans, freezer, microwave Oven, water heaters, metal toys.

Automobile internal parts, toolboxes, motor covers, water pumps.

General industry – shelving racks, computers, exercise equipment, valves and fittings

PRODUCT KEY FEATURES

- ✓ Suitable for Interior usage only.
- ✓ A wide range of colours, gloss levels and surface finishes are available.
- ✓ Hard durable protective finishes with excellent adhesion
- ✓ Excellent corrosion protection & chemical resistance
- ✓ High flexibility and impact resistance
- ✓ Excellent electrostatic charging and high transfer efficiency
- ✓ Wide range of curing schedules
- ✓ Environmentally friendly coating

POWDER PROPERTIES

PROPERTY	DESCRIPTION
Chemistry	Pure Epoxy
Colours	RAL & other custom-made shades
Gloss Levels	EP-FG Full Gloss - 85 (+/-) 5 EP-RG Reduce Gloss - 77 (+/-) 7 EP-SG Semi Gloss - 50 (+/-) 10 EP-SM Matt - 30 (+/-) 10 EP-DM Dead Matt - 5 (+/-) 5
Patterns	Smooth, Texture, hammer tone antiques, metallic types.
Specific gravity	1.20 - 1.80 (depending upon colour & finishing)
Theoretical Coverage	8 – 13sq. meter/kg (as per application conditions)
Curing schedule	180 °C / 10Min & 160 °C / 10Min (metal temperature)
Particle size	60 (+/-) 5% above 32-micron sieve
Storage	Dry ventilation conditions below 33°C
Shelf life	12months
Packing	20Kg cartons (600kg on pallet wrapped with sheet)

POWDER APPLICATION

GENESIS EP Series 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.

PRE-TREATMENT

Substrate should be free of grease, oil, dirt, fingerprints, and drawing compounds, remove all contamination and apply surface treatments to get optimum adhesion and coating performance properties. The use of a chemical conversion coating prior to the application of a powder coating is strongly recommended i.e. Iron or Zinc Phosphate.

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COATING PROPERTIES

Test Description	Test Standard	Results
Impact Test	ISO-6272	50kg/cm (No surface cracking)
Adhesion	ISO-2409	GT-0
Pencil Hardness	ASTM D 3363	H-2H pass (No pencil marks)
Bend Test - Conical Mandrel	ISO-6860	≥ 5mm pass (No film cracking)
Salt Spray – NACL 5%, 500hours	ASTM B117	No blistering & loss of adhesion No undercutting
Humidity Resistance, 500hours	ISO6270-2	No permeation exceeding 1mm on both sides of the scratch

**The above test results are of EP-FG product 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

MANUFACTURED & MARKETED BY
GENESIS POWDER COATING PVT LTD
226, Sundar Industrial Estate, Lahore, Pakistan
Tel. No. +92 42 35297013-15
www.genesispowder.com

GENESIS POWDER COATING PVT LTD

226, Sundar Industrial Estate, Lahore, Pakistan. +92 42 35297013-15, info@genesispowder.com, www.genesispowder.com