



POLYESTER ARCHITECTURAL POWDER COATING GPC – PA SERIES

PRODUCT DESCRIPTION

GENESIS Polyester Architectural - PA Series Powder Coating is recommended for the Architectural Aluminium Industry; it offers excellent gloss & color retention with outstanding UV and weathering resistance as per International quality standards.

APPLICATION AREAS

- Architectural Aluminium Industry
- Aluminium windows, doors, facades, curtains etc.
- Electric items – panel boards, light poles, transformers etc
- Outdoor furniture
- Agricultural equipments
- Garden Furniture & Playground items, bicycle components.
- Automobile Accessories
- General industry – satellite dish, fences, canopies, fire cabinets, stadium seating and other items

POWDER APPLICATION

GENESIS PA 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.

PRODUCT KEY FEATURES

- ✓ Suitable for Architectural coatings
- ✓ A wide range of exterior durable RAL & customized colours
- ✓ Exceptional outdoor durability backed with warranty certificates up to 10 years (terms & conditions)
- ✓ Excellent UV resistance for exterior application
- ✓ High humidity, corrosion, and water immersion resistance
- ✓ Good overbake resistance to yellowing
- ✓ Environmentally friendly coating
- ✓ Meet international standard performance requirement

POWDER PROPERTIES

PROPERTY	DESCRIPTION
Chemistry	Polyester Architectural
Colours	RAL & other custom-made shades
Gloss Levels	PA-FG Full Gloss - 90 (+/-) 5 PA-RG Reduce Gloss - 77 (+/-) 7 PA-SM Matt - 30 (+/-) 5 PA-DM Dead Matt - 5 (+/-) 5 PA-ST Sand Texture - 10 (+/-) 5
Patterns	Smooth, Sand Texture, metallic types.
Specific gravity	1.20 - 1.70 (depending upon colour & finishing)
Theoretical Coverage	9 – 13sq. meter/kg (as per application conditions)
Curing schedule	200 °C / 10Min & 190 °C / 15Min (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)

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 recommended types of pre-treatments for the most frequently used substrates are:

- For Steel* - : *Iron or Zinc Phosphate*
- For Galvanized Steel* - : *Chromate treatment*
- For Aluminium* - : *Chromate treatment (DIN 50939)*

GENESIS POWDER COATING PVT LTD



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COATING PROPERTIES

Test Description	Test Standard	Results
Cupping Test	ISO-1520	5mm Pass (No surface cracking)
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%, 1000hours	ASTM B117	No blistering & loss of adhesion No undercutting
Salt Spray – Acetic Acid, 1000hours	ISO9227	Maximum 15mm ² permeation For a scratch of 10cm
Humidity Resistance, 1000hours	ISO6270-2	No permeation exceeding 1mm on both sides of the scratch
Accelerated Weathering UVB-313 , 300hours	ISO 16474 4hours @ 50°C UV 4hours @ 40°C Condensation	No chalking with excellent color stability and gloss retention
Accelerated Weathering UVA-340 , 1000hours	ISO 16474 8hours @ 60°C UV 4hours @ 45°C Condensation	No chalking with excellent color stability and gloss retention

**The above test results are of PA-FG product when typically tested on 0.8mm CRS pre-treated panel*

STORAGE & SHELF LIFE

Store Powder in a dry & cool conditions. 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.

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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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