



POLYESTER SUPERDURABLE POWDER COATING GPC – PS SERIES

PRODUCT DESCRIPTION

GENESIS Polyester Superdurable – PS Series Powder Coating recommended for applications where it needs outstanding weathering performance and excellent resistance to the UV light.

APPLICATION AREAS

Architectural Aluminium Industry

Aluminium windows, doors, facades, curtains etc.

Electric items – panel boards, light poles in coastal areas, transformers etc

Outdoor furniture

Agricultural equipments

Garden Furniture & Playground items

General industry – satellite dishes, fences, canopies, fire cabinets, stadium seating and other items

PRODUCT KEY FEATURES

- ✓ Recommended for Architectural Superdurable coating
- ✓ Available in selected RAL colours, other colours can be available upon technical assessments.
- ✓ Offers Outstanding weathering resistance and excellent UV protection
- ✓ Exceptional outdoor durability backed with warranty certificates up to 25 years (terms & conditions)
- ✓ Meet international standard performance requirement.
- ✓ High humidity and water immersion resistance
- ✓ Outstanding corrosion protection
- ✓ Environmentally friendly coating

POWDER PROPERTIES

PROPERTY	DESCRIPTION
Chemistry	Polyester Superdurable
Colours	RAL & other custom-made shades
Gloss Levels	PS-FG Full Gloss - 85 (+/-) 10 PS-SG Semi-gloss - 65 (+/-) 7 PS-SM Matt - 35 (+/-) 7
Patterns	Smooth, Sand Texture, metallic types.
Specific gravity	1.20 - 1.60 (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)

POWDER APPLICATION

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

<i>For Steel</i>	-:	<i>Iron or Zinc Phosphate</i>
<i>For Galvanized Steel</i>	-:	<i>Chromate treatment</i>
<i>For Aluminium</i>	-:	<i>Chromate treatment (DIN 50939)</i>

GENESIS POWDER COATING PVT LTD



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COATING PROPERTIES

Test Description	Test Standard	Results
Cupping Test	ISO-1520	2mm Pass
Impact Test	ISO-6272	30kg/cm
Adhesion	ISO-2409	GT-0
Pencil Hardness	ASTM D 3363	H-2H pass (No pencil marks)
Bend Test - Conical Mandrel	ISO-6860	≥ 10mm pass (No film cracking)
Salt Spray – NaCL 5%, 3000hours	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, 3000hours	ISO6270-2	No permeation exceeding 1mm on both sides of the scratch
Accelerated Weathering UVB-313 , 600hours	ISO 16474 4hours @ 50°C UV 4hours @ 40°C Condensation	No chalking with excellent color stability and gloss retention
Accelerated Weathering UVA-340 , 3000hours	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 PS-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

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