



ANTIMICROBIAL POWDER COATING GPC – AM SERIES

PRODUCT DESCRIPTION

GENESIS Antimicrobial Powder Coating - AM Series. It is based on Silver Ion Antimicrobial technology to produce a hygienic coating system. The coatings based on this technology provide the required decorative effect as well as protection against microbial growth on the surface of coated parts.

APPLICATION AREAS

Medical related items: instruments trays, bed, chairs, cabinets, light fixtures

Daily usage items: door handles, lockers, changing rooms, shopping carts

Public transport, handrail, fitness equipments.

School, park and playground items.

Childcare facilities and playing areas.

Restaurants metal furniture, food processing equipments, display cases.

PRODUCT KEY FEATURES

- ✓ Suitable for both Interior & Exterior usage.
- ✓ A wide range of colours and gloss levels are available.
- ✓ Retain Antimicrobial properties over a longer period of time.
- ✓ Protect against the spreading of micro-organisms.
- ✓ Good chemical and mechanical performance.
- ✓ High humidity, corrosion, and water immersion resistance
- ✓ Good scratch and abrasion resistance.
- ✓ Environmentally friendly coating

POWDER PROPERTIES

PROPERTY	DESCRIPTION
Chemistry	Indoor and outdoor applications
Colours	RAL & other custom-made shades
Gloss Levels	Glossy, Semi Glossy, Matt & other customized requirements
Specific gravity	1.20 - 1.80 (depending upon colour & finishing)
Theoretical Coverage	8 – 13sq. meter/kg (as per application conditions)
Curing schedule	200 °C / 10Min & 180 °C / 12Min (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 AM 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.



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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
Antimicrobial test against <i>Escherichia Coli & Staphylococcus Aureus</i>	JIS Z 2801:2010	Reduction % > 99.999

**The above test results are of AM-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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