

AG Powder Coating

Product Description

AG (Anti-Graffiti) powder coatings are mainly made of high-performance hydroxyl-polyester resin and isocyanate for both indoor and outdoor application, which have excellent anti-graffiti and stain resistance with good aesthetic appearance. It is suitable for outdoor and architectural applications.

Film Appearance & Package

Appearance effects: Smooth surface (all gloss range)
Color: According to requirement
Package: 20Kgs. Carton boxes with double PE-bag.

For more information, please contact us.

Physical Data

Specific gravity: 1.2-1.7 (depending on color)
Dry flow ability: 120-160
Particle size: 100% < 160µm, according to requirement

Substrate & Preparation

Substrate: Aluminum profile, steel or galvanized steel sheet, and other metal substrates.

Preparation: The substrate shall be pre-treated according to GB/T9271 or ISO 1514. The cold-rolled steel plate tested for salt spray resistance shall be phosphate in addition to GB/T 9217. If the product is applied in high-anticorrosive environment of C4 or above (rated according to ISO12944), it can be used with Huajia anticorrosive special primer (please consult us).

Curing Condition (Object Temperature)

-> Can be used such as gas, hot convection drying path, oven and other ways of curing.
-> If use the gas oven to bake, combustion by-products will change the color of the film.

Recommended curing condition: Object temperature/time 200-210°C/15-20min

Application

- Do not mix this product with others.
- The substrate must be properly pre-treated before use.
- Manual or automatic electrostatic spraying can be used.
- The film thickness should be determined according to the geometry and requirement of the coated object, and the performance should be evaluated when the film thickness is less than 60µm.
- If the powder application finished, it is necessary to thoroughly clean the line before other coating application, otherwise the coating appearance will be affected.

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Product Performance & Film Properties

PROPERTIES	TEST METHOD	CRITERIA
Adhesion	ISO 2409	Class 0
Hardness	ISO 2815	≥80
Cupping Test	ISO 1520	≥5mm
Bend Test	ISO 1519	≤4mm
Salt Spray	ISO 9227	500 hours - no corrosion more than 2mm from the scribe
Impact Test	ISO 6272	≥2.5Nm
Humidity Resistance	ISO 6270	1000 hours, ≤2 mm from scribe
Accelerated Weathering	ISO 11341	500h Q-Sun test, ≥ 70 % Gloss retention, ΔE≤5
Anti-Graffiti Resistance	Type	Cleaning Fluid
	Enamel Spray	Alcohol,acetone
	Water-based Marker	Rub with cloth
	Permanent Marker	Alcohol,acetone
	Lipstick	Rub with cloth
	Shoe Polish	Rub with cloth
<p>Note: 1-All chemical and physical properties are laboratory test results (unless otherwise stated), and are for reference only in application. The performance still needs to depend on the final use environment of the product.</p> <p>2-The substrate for the above chemical and physical tests is chromate aluminum plates, and all test plates are sprayed with a film thickness of 60 to 80 μm .</p>		

Storage Stability

Store in a cool ($\leq 30^{\circ}\text{C}$), dry warehouse, prevent direct sunlight, and should be isolated from fire source, away from heat source. Storage life is 6 months from the date of production. For products with gloss less than 70%, storage life is 6 months@25 $^{\circ}\text{C}$. For special products, please refer to specific product description.

Safety Precaution

All dusts are respiratory irritants. Therefore, inhalation of the dust or of the vapour resulting from the cure should be avoided. Take step to prevent skin contact, but should contact occur, wash skin with soap and water. In case of eye contact flush immediately with clean water and seek medical advice. Dust and powder should not be allowed to build up on surface or ledge. Dust clouds of any finely divided organic material can be ignited with an electric spark or open flame. All equipment should be electrically earthed to prevent build up of static.

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