

AM Powder Coating

Product Description

AM (Anti-Microbial) powder coating contains an inorganic anti-microbial agent which is harmless to the human body, and the coating has excellent anti-microbial, safety and long-term activity for the application of home appliance, kitchen ware, medical equipment, office supplies and outdoor recreation facilities. It has been proven that it can effectively inhibit a wide range of bacteria such as: *escherichia coli*, *staphylococcus aureus*, *aspergillus flavus*, *aspergillus versicolor*, *Penicillium funiculosum*, *Chaetomium globosum*, *aspergillus niger*, etc.

Film Appearance & Package

Appearance effects: smooth surface (all kinds of gloss range), sanding, hammer effect

Color: According to requirement

Packing: 20Kgs. Carton boxes with double PE-bag.

For more information, please contact us.

Physical Data

Specific gravity: 1.2-1.7 (depending on the gloss and color)

Dry flow ability: 120-160

Particle size: 100% < 160 μ m, according to requirement

Substrate & Preparation

Substrate: 1-Aluminum profile and aluminum sheet. 2-Steel or galvanized steel sheet. 3-Also can be used to protect and decorate indoor equipment (For more information, please contact us).

Preparation: To achieve the best performance of AM series products, the pretreatment must be carried out according to the construction guidelines. The base material shall be pre-treated according to GB/T 9271 or ISO 1514. The cold-rolled steel plate tested for salt spray resistance shall be phosphate in addition to GB/T 9271. 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 IR, 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°C/10-15min

Application

- Do not mix this product with others
- The substrate must be properly pre-treated before powder application
- 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 60 μ m

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Product Performance & Film Properties

PROPERTIES	TEST METHOD	CRITERIA
Film Thickness	ISO 2360	60-80um
Adhesion	ISO 2409	Class 0
Hardness	ISO 2815	≥80
Cupping Test	ISO 1520	≥5mm
Bend Test	ISO 1519	≤3mm
Salt Spray	ISO 9227	Aluminum Substrate: 1000h – no corrosion area more than 4mm from scribe
		Other Substrate: salt spray 500h - no corrosion area more than 2mm from scribe
Impact Test	ISO 6272	≥2.5Nm
	GB/T 1732	50cm*Kg
Humidity	ISO 6270	Pass at 1000 hours – no corrosion area ≥2 mm from scribe
Toxicity test	GJB150.10A	Class 0 (aspergillus flavus, aspergillus versicolor, Penicillium funiculosum, Chaetomium globosum, aspergillus niger)
	JIS Z 2801	Anti-Microbial activity value ≥2 (escherichia coli)

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.
2-The substrate for the above chemical and physical tests is chromate aluminum plate, and all test plates are sprayed with a film thickness of 60 to 80 μm .

Storage Stability

Store in a cool with the highest temperature of 30°C, ventilated and dry warehouse to prevent direct sunlight, isolate from the source of ignition, and keep away from heat. The effective storage period is 12 months from the manufacturing date. For products with gloss below 70%, the storage life is 6 months @30°C. Please refer to the specific product descriptions for special products.

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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