

EE Powder Coating

Product Description

EE series powder coatings are mainly made of epoxy resin and the matched curing agent. This series of products have excellent corrosion resistance, flexibility, insulation. They are suitable for the application of indoor metal products, electronic components, pipelines, valves and rebar with high anticorrosion requirement, and they are also applicable as the primer of double-layer system.

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% < 160μm, according to requirement

Substrate & Preparation

It is applied to the protection and decoration of indoor facilities as required: such as steel or galvanized steel sheets (pipes), copper, cast iron and other metal substrates (for more detailed information, please contact us).

For boards: It is recommended to adopt chemical methods such as degreasing, pickling, phosphating, etc.;

For pipes, valves, rebar, it is recommended to adopt sand blasting to Sa2.5 (Swedish Standard) and profile between 50μm and 112 μm.

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 180-200°C/10-15min

-> If pre-heating available, please see detailed product information.

Application

- Do not mix this product with others
 - The substrate must be properly pre-treated before use
 - Various modes such as the liquefaction bed, vacuum suction, roller coating, the manual or automatic electrostatic gun can be used in the construction
 - 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
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黄山华佳表面科技有限公司

中国, 安徽省, 黄山市, 徽州区, 永佳大道 109#

电话: 0086 559-3515170 传真: 0086 559-3511660

网站: www.hjchem.com

Huangshan Huajia Surface Technology Co., Ltd

No. 109 Yongjia Ave., Huizhou Dist, Huangshan City, Anhui, PRC

Tel: 0086 559-3515170 Fax: 0086 559-3511660

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Product Performance & Film Properties

PROPERTIES	TEST METHOD	CRITERIA
Film Thickness	ISO 2360	According to requirement
Adhesion	ISO 2409	Class 0
Hardness	ISO 15184	≥F
Cupping Test	ISO 1520	≥5mm
Bend Test	ISO 1519	≤3mm
Neutral salt spray test	ISO 9227	Pass at 1000 hours - 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 blistering, creep≤2mm

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 physical and chemical tests is: A cold-roll steel sheet after phosphating and passivating, with the film thickness of 60-80 μm.

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. The effective storage period is 6 months from the manufacturing date. For special products, the storage life is 3 months @25 °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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