

Features

Epoxy polyester type offering wide-ranging hues and antistatic effect

1. Organic solvent free and conscious of the environment and humans
2. High electrical conductivity and antistatic properties
3. Available in a wide range of hues from pale to dark colors

	Standard temperature curing type
Type of resin	Epoxy Polyester Resin
Powder density(white)	1.50 ± 0.20
Particle size	30–50 μm
Surface resistance value	On the order of 10 ⁴ Ω
Recommended coat thickness	40–80 μm
Coverage	Light colors: Approx. 150 g/ m ² Dark colors: Approx. 150 g/ m ²

Intended use

Semiconductor Manufacturing equipment, Cleanroom interiors, Precision instruments, Metal products, etc.

Color

Available in custom colors

For custom colors, please contact our sales representative.

Volume

REGARD RC: 15 kg

Instructions for Use

1. Pretreatment

Chemical treatment is needed to obtain stable adhesion.

Check the material and required performance prior to pretreatment.

2. Application

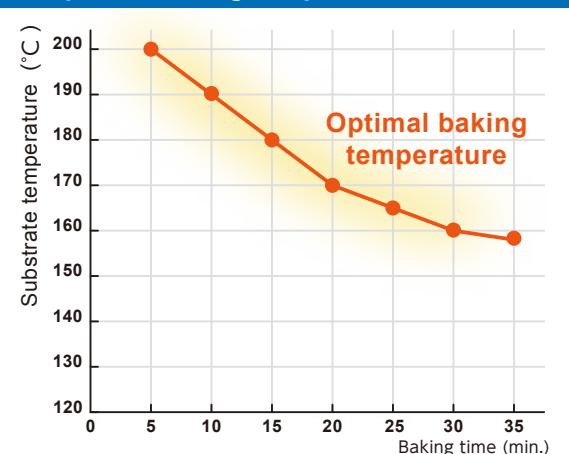
Standard coat thickness	60 ± 20 μm
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- Check the settings on the spray gun (e.g., applied voltage, air pressure).
- Check the spray pattern.
- Check the paint spray rate.
- For automated coating, check the settings for conveyor speed, reciprocator speed, and reciprocator stroke.

3. Baking and Drying

Standard baking temperature (Substrate temperature)
Standard temperature curing type
170 °C×20 min.

Optimal baking temperature and time



Coat Performance

Test Items	Standard temperature curing type	Test Conditions
Coating appearance	Slight orange peel texture tendency	Visual inspection
Glossiness	70–90	60-degree gloss
Pencil Hardness	H	Film hardness tester using Mitsubishi UNI pencils
Adhesion	100/100	Cross-cut test with adhesive tape
Impact resistance	No abnormality	DuPont impact tester (ϕ 1/2 inch×500 g×50 cm)
Erichsen value	7 mm \leq	Erichsen tester (ϕ 20 mm)
Water resistance	No abnormality	Distilled water (immersed for 1 year at 20 °C)
Boiling water resistance		Distilled water (immersed for 1 hour at more than 98 °C)
Humidity resistance		Humidity resistance tester (exposed to 98 % RH at 50 °C for 300 hours before visual inspection)
Saltwater resistance	2 mm \geq	Saltwater spray tester (500 hours; confirmation of the width of corroded region in cut section)
Acid resistance	No abnormality	5 %H ₂ SO ₄ (immersed for 500 hours at 20 °C before visual inspection)
Alkali resistance		5 %NaOH (immersed for 500 hours at 20 °C before visual inspection)
Conductivity	10 ⁴ Ω	JIS A 1454 23.3 Surface Electrical Resistance Test (500 V)

- * Test sheet dimensions: 0.8×70×150 mm (SPCC-SD steel sheet)
- * Conductivity test panel: Die-cast aluminum panel
- * Pretreatment: zinc phosphate conversion coating
- * Ensure conductivity by grounding the entire area to prevent static electricity.
- * Conductivity may be lost if the coat thickness exceeds 100 μ m.
- * In general, recoating is not permitted.

Coating Precautions

1. Do not use the product until you have read the instructions for use provided in the catalogue.
2. Inhalation of or skin contact with the product may result in skin irritation/rash, intoxication, or other health hazards.
3. Handle with care. Use in the presence of ignition sources may result in dust explosions.

Expiration Date and Precautions on Storage

1. The expiration date following shipment from our company (before opening) is six months for paint.
2. To store leftover paint, place in a polyethylene bag and keep the bag tightly closed with a rubber band to protect from moisture.
3. Protect from sunlight and keep dry. Store the product in a cool, dark, well-ventilated location. Maintain temperatures at 35 °C or below.
4. Do not place containers/bags directly on the floor. Place on pallets, etc. Do not stack more than four cases.
5. Due to the nature of powder paints, high temperature, high humidity, and excessive loads may result in clumping. Store powder paint products under suitable conditions.

Precautions on Safety and Sanitation

» Precautions on Use

1. Install local ventilation systems in places where the products are handled.
2. Keep the area well-ventilated and avoid inhaling dust during painting and drying processes.
3. Take care to avoid direct contact between the product and skin during handling. Wear a dustproof mask, protective gloves, protective clothing, eye protection, and apron.
4. Thoroughly wash and rinse mouth and throat after handling.

5. Although powder paint is not a designated hazardous substance under the Fire Service Act, the material is flammable.
6. Although the risk of ignition of this product is minimal compared to solvent paints, care must be taken to prevent dust explosion. Take appropriate measures to keep dust concentrations low, and pay close attention to poor grounding and any ignition sources.

» First Aid Measures

1. If on skin or in hair, immediately remove all clothing contaminated with paint and wash with plenty of soap and water. Seek medical attention if you feel pain or notice any injuries.
2. If in eyes, rinse with plenty of water. Get immediate medical attention.
3. If inhaled and feeling unwell, remove the person to fresh air and place at rest. Get medical attention, if necessary.
4. If swallowed, get immediate medical attention.

» Disposal

1. Empty containers completely before disposing of their contents. Separate bags from the outer box. Consign disposal to industrial waste disposal facilities.
2. Consign the disposal of collected dust to industrial waste disposal facilities.

» Other

Refer to the product Safety Data Sheet (SDS) for more information.

Note : The contents of the present catalog are subject to change without notice.

Note : The results of testing on various resistance characteristics are based on our in-house evaluations. They do not constitute a guarantee of product quality or performance.

Note : Unauthorized reproduction or use of the contents, texts, or images in the present catalog is strictly prohibited.

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