

The Conductive Paint for EMI Shielding

EMI768n

Edogawa Gosei Co., Ltd.

○ Product Summary

In today's world, we are surrounded by electromagnetic waves emitted by a variety of devices including PCs, cell phones, and TVs. There are concerns that these electromagnetic fields may have some effect on the human body and could cause the precision measurement system inside industrial machine and communications devices to malfunction and possibly compromise data security. Our EMI shielding paints "EMI Series" protect digital devices from electromagnetic interference, and are widely used by the industry.

○ Functionality

- Enhanced, long-lasting conductivity
- Better adhesion and impact resistance

○ Intended Use

EMI shielding for various metals

○ Composition

Polyester resin, organic solvent, conductive materials, additives

○ Use and Application

- Agitation
Provide sufficient agitation before use to disperse the sediment.
- Mixing
Use 10 parts of base to 2-4 parts of thinner by weight.
Use our Thinner2500 S.
- Drying

Set-to-touch	15 min. at 20°C
Dry-hard	30 min. at 150°C
- Film Thickness
Standard film thickness: 25±5µm

○ Film Performance

Test Item	Test Condition	Result
Adhesion	Cross-cut test SPCC steel plate	100/100
	Cross-cut test Bonderized steel plate	100/100
	Cross-cut test Zinc phosphate-treated steel plate	100/100
	Cross-cut test Aluminum plate A1050P	100/100
	Cross-cut test SUS304-2B plate	100/100
	Cross-cut test SUS316-2B plate	100/100
Drawing Test	Drawing test equipment 1cmφ x 1kg	○
Chip Resistance	Dupont impact tester 500g 40cm	○
Conductivity Test	Multimeter surface resistance	10Ω ≥
Solvent Resistance	Number of fixed-force (500g) rubbings (double action) with lacquer thinner	over 50 rubbings
Alcohol Resistance	Number of fixed-force (500g) rubbings (double action) with IPA	over 50 rubbings
Salt Spray Test	Salt spray tester 5% NaCl solution (ambient temp. 35°C, 95% humidity, 24 hours)	rust width from cut part: 1mm ≥

✱ Phosphate-treated plates were used in all but adhesion test.

✱ These results do not necessarily guarantee the quality and performance of our product under all conditions.

○ Precautions

- This product contains nickel powder. Provide sufficient agitation before use to disperse the sediment of conductive particles.
- Follow the painting process and monitor film thickness to obtain a stable surface resistance value.
- Read and follow SDS before use.
- Mixing with other company's thinner may cause the pigments to separate from resin and compromise its performance.
- Completely degrease the substrate.
- This product is for indoor use. Do not use outdoor and avoid direct sunlight.

○ Size

- EMI768n
18kg (Minimum Order Quantity 120kg (18kg×7cans))
- Thinner2500 S
16 L

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