

Electromagnetic Shielding Paint EMI 768n



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○ Introduction

Nowdays, 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 human body and could cause the precision instrument of industrial machine and communication devices to malfunction and possibly compromise data security. Our EMI shielding paints “EMI Series” protect digital devices from electromagnetic interference, and are widely used in industry field.

○ Composition

Polyester resin
 Conductive materials
 Additives
 Organic solvent

○ Features

EMI 768n is a one-component, baking finish coating based on polyester resin and with nickel as it's conductive material. EMI 768n provides outstanding electromagnetic interference shielding function by low cost and mainly be used for various metals material.

○ Usage and Application

- (1) Please stir the paint well before using to prevent from sediment and deposition.
- (2) Please mix the base with thinner in proportion of 10 : 2~4
- (3) Please use our special thinner “Thinner 2500S” for dilution.
- (4) Drying time
 Set-to-touch 20°C × 10~15min
 Forced drying 150°C × 30min (the temperature of coated object)
- (5) Standard film thickness : 30 ± 5 μm

○ Coating quantity (g/m²)

Mixed quantity : 200g/m²

○ Purpose

Electromagnetic shielding for various types of metal products.

○ Film Performance 1

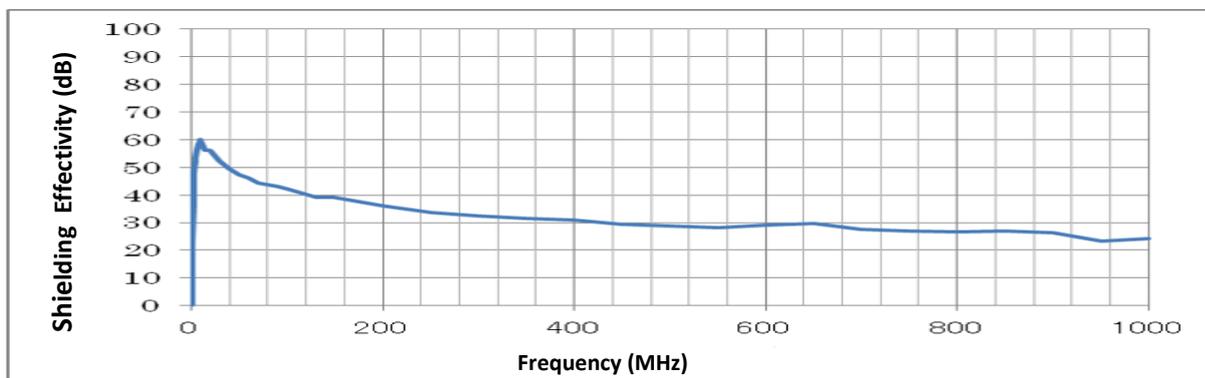
Test Item	Test Condition	Result
Adhesion	Cross-cut test SPCC steel plate	100/100
	Cross-cut test Bonderized steel plate	100/100
	Cross-cut test Zinc phosphate-treated steel plate	100/100
	Cross-cut test Aluminum plate A1050P	100/100
	Cross-cut test SUS304-2B plate	100/100
	Cross-cut test SUS316-2B plate	100/100
Drawing Test	Drawing test equipment 1cm φ x 1kg	○
Impact Resistance Test	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.

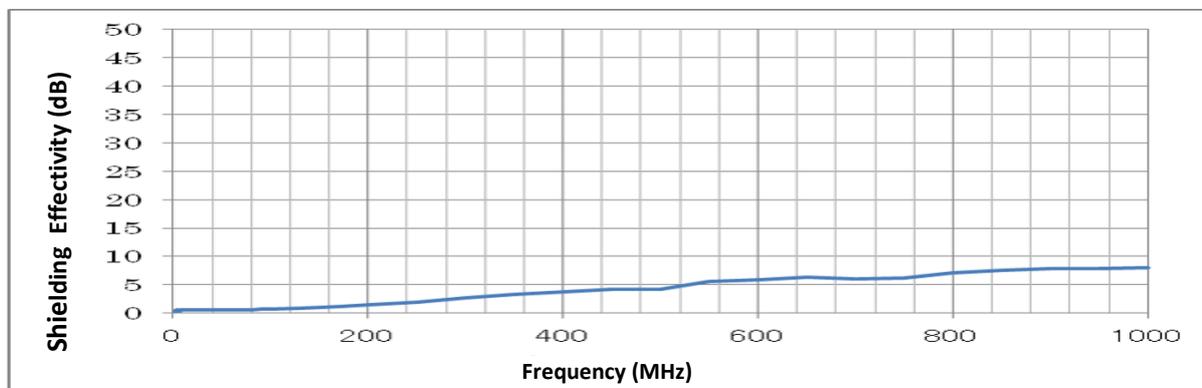
※The test data above is for reference only. Please confirm the test before actual use. The test result do not guarantee the quality and performance of our product under all conditions.

○ Film Performance 2 (Electromagnetic Shielding)

Electric Shielding※



Magnetic Shielding※



Test Condition 1.Film thickness : 35 μ m

2.Test plate material : Phenolic resin plate

3.Drying condition : 150°C × 30min, and left at ambient temperature for another 3 days

※The test result do not guarantee the quality and performance of our product under all conditions.

○ Precautions

- (1) About dangerous, harmful information, please refer to SDS.
- (2) Before coating, please make sure the object to be coated is fully degreased.
- (3) Using other diluent may impair the performance of film, Please use our specified diluent.
- (4) Please use the diluted paint as soon as possible.
- (5) The paint should be preserved in cold and dark places.
- (6) Please use the paint within 3 months after shipment date, and use thinner 2500S within 1 year after shipment date.
- (7) This product is only suitable for indoor use, and should be avoided from direct sunlight for long time.
- (8) Please fully stir the paint before using in case of the precipitation of the conductive materials.
- (9) Since film thickness will affect shielding effectivity, please pay attention to the painting process and conduct film thickness management before and during painting.

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