

EMI/RFI Shielding Coatings

EMCoat-C

- **Low VOC, Silver / Silver Coated Copper Conductive Coating**
EMCoat-C series is spray-type conductive coatings based low VOC system, formulated silver flake(EMCoat-CA) and silver coated copper(EMCoat-CC) as conductive filler with special technology.
EMCoat-C series designed to be spray applied onto plastic housing of electronic equipments.
EMCoat-C series provides a long-term shielding effects, excellent cohesion and adhesion for most plastic substrates.

Features

- **Excellent shielding performance**
For passing UL, CE or FCC requirements
- **Excellent cohesion and adhesion**
Coating integrity and conductivity stay intact at seams and grounding points.
- **Easy Mixing**
- **Fast drying**
- **Excellent aging stability**
Shielding integrity stays intact in harsh environments

Application Method

- **Mixing and dilution**
EMCoat-C is a ready-for-use material and EtOH can be added if needed.
- **Mix EMCoat-C on a paint shaker or electric stirrer before use.**
- **EMCoat-C is best applied by spray technique using either a conventional system, or for higher efficiency, EMCoat-C should have a nominal dry film thickness to obtain good shielding performance.**
 - EMCoat-CA : 10 μm
 - EMCoat-CC : 25 μm
- **The coated device can be air-dried for 30 minutes at room temp., or can be dried for 10 minutes at 50°C**
- **Theoretical coverage area**
 - EMCoat-CA : 39 m^2/L
 - EMCoat-CC : 10 m^2/L

Properties

Item	EMCoat - CA silver flake	EMCoat - CC silver coated copper
conductive fillers	silver flake	silver coated copper
surface resistivity	0.15 ± 0.05 (ohm/sq at 0.5mil)	0.25 ± 0.05 (ohm/sq at 1mil)
solid contents	46 ± 1 wt%	22 ± 1 wt%
	30min.	30min.
drying time	10min.	10min.
	25 μm	50 μm
recommended thickness	dry film 10 μm	25 μm
	diluent	Ethyl Alcohol (EtOH) (min. 98%)
dilution ratio	ready-for-use (if needed, up to 50 Vol. % of EtOH can be added)	ready-for-use (if needed, up to 10 Vol. % of EtOH can be added)
recommended working viscosity (method by Ford cup #4)	16 ± 2 sec	20 ± 2 sec
max. service temperature	100 °C	100 °C
VOC contents	max. 250 g/L	max. 240 g/L
attenuation*	min. 60 dB	min. 50 dB

*Shielding performance (dB) : ASTM D 4935-89

Packing Sizes & Storage

- 4 kg, 18 kg, etc.
- Shelf life : 6 months under original seal



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