



MAPELEC SSC-01



Solvent based 1-K acrylic
Spray conductive coating – Silver/copper range



Characteristics

Electrically conductive acrylic coating highly concentrated in highly conductive silver based fillers for EMI Shielding applications in order to ensure electromagnetic compatibility (EMC) for electrical and electronic equipments.

The SC-600 offers an excellent surface conductivity with thin layers applied and is ideal for sensitive devices. The coating reaches a surface resistivity lower than 50 mΩ/□. Resistivities lower than 20 mΩ/□ can be achieved with thicker layers from 40 μm.

Technical specification

Chemical nature of the filler : Ag, AgCu
Density at 25 °C (ISO 2811-1) : 1.66 ± 0.10
Solid content (ISO 3251) : 60 ± 3 %
V.O.C. : 664 g.L⁻¹

Standard thickness (stk) : 10 μm
Resistivity (at stk) (ASTM F390-98) : <0.050 Ω/□
Resistivity (> 40 μm) (ASTM F390-98) : <0.020 Ω/□
Theoretical yield (at stk) : 16.3 m².kg⁻¹

Preparation and application

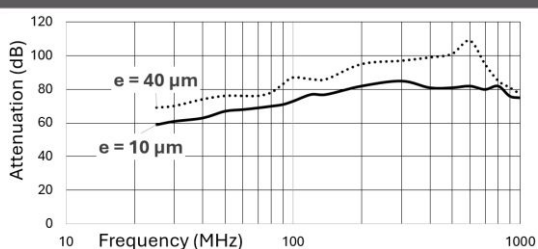
The viscosity of the SSC-01 has to be adjusted using the thinner : FDIL7050 – MAPELEC S2.

	REFERENCE	WEIGHT RATIO
BASE	FCEM112 – MAPELEC SSC 01	100
THINNER	FDIL7050 – DILUANT MAPELEC-S2	25 to 50

The product, having a strong tendency to settle, must be thoroughly homogenized before use by mechanical stirring for 1 to 2 minutes, and it may be necessary to maintain stirring during application.

The application is carried out in crossed coats using a pneumatic spray gun with a fully open nozzle diameter of 0.8 mm, an air pressure of 2.0 bars, and a wide spray pattern.

Electromagnetic attenuation (GAM T20)



Drying conditions

Drying must be carried out in a dust-free environment, at controlled temperature (18-25 °C) and humidity (35-70 %).

Tack free : 0.5 h
Dry to handle : 1 h
Drying to the core : 72 h

Storage and handling

Storage temperature : 5°C to 35°C

Validity : 12 months

All products must be stored in their original packaging and protected from moisture.

Safety

The classification of this preparation has been executed in accordance with the current directives: RoHS, REACH

Safety Data Sheet is available on request.

Warranty: We guarantee our supplies against hidden defects in material and preparation for the duration of the product's validity. Our liability is limited to the obligation to replace defective products free of charge, without any claim for compensation for any reason whatsoever. It is the responsibility of users of our products to validate on their substrates and under their application conditions that the products and/or processes meet their requirements. The advice we provide is merely information about the products and/or processes based on our experience, but it cannot be considered absolute and therefore does not engage our liability in case of inefficiency. The use of our products beyond their expiry date does not engage our liability in case of inefficiency. It is the responsibility of users to ensure the validity date of the product, which is indicated on the label of the container containing the product. Furthermore, our company cannot be held responsible for bodily or material damage resulting from improper or incorrect use of our products, or from their non-compliant implementation. Any specific commitment, waiver of the clauses above, and more generally of the warranty clause must be validly documented and signed by the company's management. This edition cancels and replaces all previous publications related to the same products and/or processes. It is the responsibility of users of our products to verify with our services that this document has not been canceled by a subsequent edition.