

FCEM105



MAPELEC RTU



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



Characteristics

Single-component conductive acrylic coating based on silver-plated copper, designed to shield against electromagnetic interference (EMI) and ensure electromagnetic compatibility (EMC) of electrical and electronic equipment.

Easy to apply, FCEM105 offers low surface resistivity at an affordable cost. The coating achieves a surface resistivity below $50 \text{ m}\Omega/\square$. It should not be used when resistance to corrosion is needed.

Technical specification

Chemical nature of the filler :	AgCu
Density at 25 °C (ISO 2811-1) :	1,04 $\pm 0,10$
Solid content (ISO 3251) :	30 $\pm 3 \%$
V.O.C. :	728 g.L^{-1}

Standard thickness (stk) :	40 μm
Resistivity (at stk) (ASTM F390-98) :	<0,050 Ω/\square
Theoretical yield (at stk) :	3,5 $\text{m}^2.\text{kg}^{-1}$

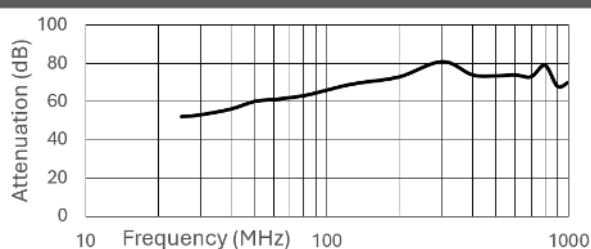
Preparation and application

FCEM105 – MAPELEC RTU is sold ready-to-use and does not require any further thinning

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. For gravity feed spray gun application, the reservoir should be regularly refilled in small portions of the product kept under stirring.

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)



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.

Drying conditions

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

T=25°C :

Dust-free :	1 h
Dry to handle :	2 h
Dry to the core :	72 h

T=60°C :

Flash off at r.T :	20 mn
Stoving at 60 °C :	45 mn
Dry to the core :	24 h

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.