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 mΩ/□. 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	± 0,10
Solid content *(ISO 3251)* :	30	± 3 %
V.O.C. :	728	$g.L^{-1}$
Standard thickness *(stk)* :	**40**	**µm**
Resistivity *(at stk)* *(ASTM F390-98)* **:**	**<0,050**	**Ω/□**
Theoretical yield *(at stk)* :	3,5	$m^2.kg^{-1}$

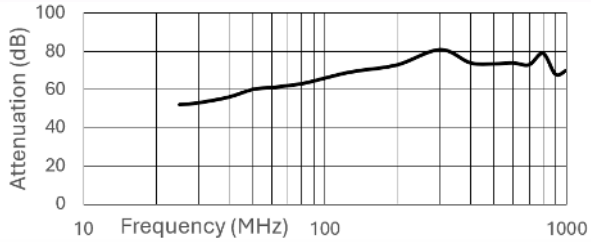
Preparation and application

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)



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 :		**T=60°C :**	
Dust-free :	**1 h**	**Flash off at r.T:**	**20 mn**
Dry to handle :	**2 h**	**Stoving at 60 °C :**	**45 mn**
Dry to the core :	**72 h**	**Dry to the core :**	**24 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.

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