FCEM119
MAPELEC® SSS-47

solvent

Description

Single-component acrylic conductive coating based on pure silver, providing shielding against electromagnetic interference (EMI) and ensuring electromagnetic compatibility (EMC) for electrical and electronic equipment.

MAPELEC SSS-47 delivers outstanding electromagnetic shielding performance, meeting the most demanding specifications. The coating achieves a surface resistivity ranging from 5 to 30 mΩ/□, depending on the applied thickness.

Technical characteristics

Chemical nature of fillers :	Silver	
Density at 25 °C (ISO 2811) :	1,40	± 0,05
Dry content (ISO 3251) :	47	± 3 %
V.O.C. :	742	$g.L^{-1}$
Standard thickness (stk) :	10	µm
Resistivitity stk (ASTM F390-98) :	<0,030	Ω/[]
Resistivitity min. (ASTM F390-98) :	<0,005	Ω/[]
Theoretical coverage (at stk) :	8,0	$m^2.kg^{-1}$

Product preparation

The product must be thoroughly homogenized under mechanical stirring for 5 minutes before use to ensure proper dispersion of the sediment. It may be necessary to keep the product under agitation during application to maintain perfect homogeneity throughout the entire application process.

The product is supplied ready for use and requires no dilution or addition of additives or hardeners.

Application

Direct adhesion on ABS, PET, PA-6: degreasing only.
Composites, castings: apply a sandable epoxy filler primer, ref. FT10677.
Polypropylene: apply primer ref. FCEM1101.
Sensitive plastics: apply primer ref. FCEM1103.

Application is carried out in cross coats using a high-flow paint with a pneumatic spray gun, a nozzle diameter of 0.8 mm, an air pressure of 2.0 bar, and a wide spray pattern.

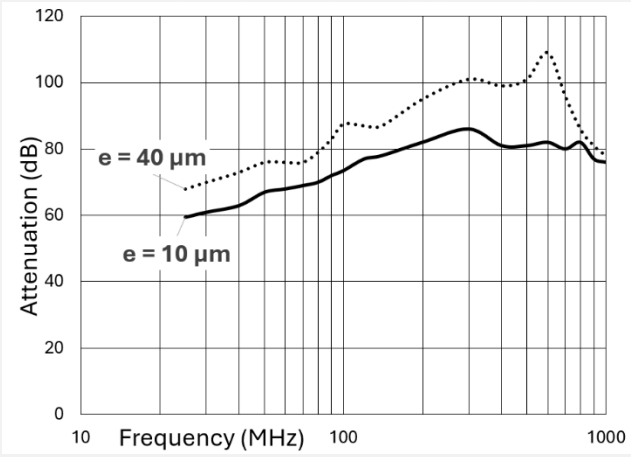
Drying

Drying must be carried out in a dust-free environment with controlled temperature and humidity (35–70%). For a multi-layer system, it is recommended to apply the coating on a dry undercoat.

T ~25 °C :		T=60°C :	
Dust-free:	**1 h**	**Flash off at r.T :**	**20 mn**
Touch dry:	**2 h**	**Stoving at 60 °C :**	**45 mn**
Through dry:	**72 h**	**Through dry :**	**24h**

Note: The final sheet resistivity is achieved after through drying.

Attenuation EM (GAM T20)



Storage

Storage: 5 °C to 35 °C, protected from humidity

Shelf life: 12 months in sealed packaging

Safety

Safety Data Sheet available on request.