

# FCEM233



## MAPELEC SC-EPX



Solvent based 2-K epoxy  
Spray conductive coating – Silver plated copper range



### Characteristics

**Two-component sprayable conductive epoxy coating with high electrical conductivity, filled with silver-plated copper.**

Mapelec SC-EPX adheres directly to many plastic substrates (ABS, PC, PA, composites, etc.) as well as to metals and alloys. The hardness of the polymer matrix provides high mechanical resistance, and the chemical resistance of the epoxy network is excellent. The achieved surface resistivity is below 50 mΩ/sq for applied thicknesses of 50 μm. The chemical nature of the silver-plated copper fillers makes the coating unsuitable for use in corrosive environments.

### Technical specification

Chemical nature of the filler : AgCu  
Solid content (ISO 3251) : 33 ± 2 %

**Standard thickness (stk) :** 50 μm  
**Resistivity (at stk) (ASTM F390-98) :** <0.050 Ω/□  
**Theoretical yield (at stk) :** 4.5 m<sup>2</sup>.kg<sup>-1</sup>

### Preparation and application

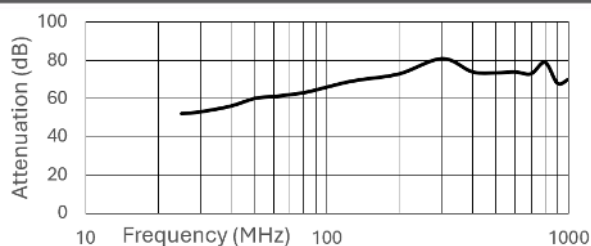
Sold as a base and hardener kit, the quantities (excluding the thinner) are pre-weighed in the original packaging.

	REFERENCE	WEIGHT RATIO
BASE	FCEM233 – MAPELEC SC-EPX	92
HARDENER	FCEM230 – MAPELEC H-EPX	8
THINNER (optional)	FD00900 – DILUANT D900	0 to 15

The base, having a strong tendency to settle, must be homogenized before use. The two or three elements of the mixture are then combined and homogenized under vigorous stirring.

**The application is carried out in crossed coats using a pneumatic spray gun with a fully open nozzle diameter of 1 mm, an air pressure of 2.0 bars, and a wide spray pattern. Pot life approximately is 1h.**

### 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 (room temp):**      **T=75°C (forced):**

<b>Dust-free :</b>	<b>1 h</b>	<b>Flash off at r.T:</b>	<b>30 mn</b>
<b>Dry to handle :</b>	<b>5 h</b>	<b>Stoving at 75 °C :</b>	<b>1 h</b>
<b>Dry to the core :</b>	<b>5 days</b>	<b>Dry to the core :</b>	<b>12 h</b>

### 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.