

# FCEM204(B)



## MAPELEC BCA-2



Solvent based 2-K PU  
Spray conductive coating – Silver/Copper range



### Characteristics

**Two-component polyurethane conductive coating based on silver plated copper**, providing shielding against electromagnetic interference (EMI) and ensuring electromagnetic compatibility (EMC) for electrical and electronic equipment.

FCEM204 offers good temperature resistance (thermosetting behavior) as well as enhanced chemical resistance. The silver plated copper fillers allows a low surface resistivity below 50 mΩ/□.

### Technical specification

Chemical nature of the filler :	AgCu
Density at 25 °C (ISO 2811-1) :	1.38 ± 0.10
Solid content (ISO 3251) :	45 ± 3 %
V.O.C. (ready-to-use) :	782 g.L <sup>-1</sup>

<b>Standard thickness (stk) :</b>	<b>50 μm</b>
<b>Resistivity (at stk) (ASTM F390-98) :</b>	<b>&lt;0.060 Ω/□</b>
Theoretical yield (at stk) :	4 m <sup>2</sup> .kg <sup>-1</sup>

### Preparation and application

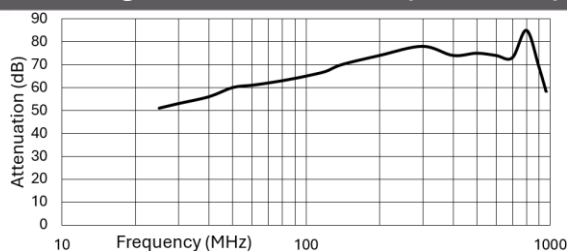
Sold as a base and hardener kit, the quantities (excluding the thinner) are pre-weighed in the original packaging.

	REFERENCE	WEIGHT RATIO
BASE	<b>FCEM204B – MAPELEC BCA-2</b>	92
HARDENER	<b>FCEM204D – MAPELEC BCA-2</b>	8
THINNER	<b>FDIL7070 – DILUANT MAPELEC-B</b>	10 to 15

The base, having a strong tendency to settle, must be homogenized before use. The 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 0.8 mm, an air pressure of 2.0 bars, and a wide spray pattern. Pot life approximately is 1h.**

### 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 :**

Dust free : 1 h  
Tack free : 2 h  
Core drying : 72 h

**T=60°C :**

Flash off at r.T : 30 mn  
Stoving at 60 °C : 60 mn  
Core drying : 48 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.