

CONDUCTIVE SILVER COATING 3830

Silver-pigmented conductive coating



Silver coating 3830 is the latest in a series of coatings which provide electromagnetic compatibility (EMC). This product has been specifically designed to offer more coverage while maintaining very high conductivity.

This is a very economic means of achieving excellent shielding against emitted electromagnetic interference (EMI).

The coating retains its low resistance even after exposure to heat, cold, humidity, and salt spray. The product is simply sprayed or brushed on and then left to air-dry, and does not require either a primer or a top coat.

It is easily applied by spray or brush and is compatible with the types of plastic that are commonly used in enclosures for electronic equipment.

Available in cans of 30 grams.

TYPICAL PROPERTIES

Color	Silver
Technology	Thermoplastic
Operating Temperature- (Maximum)	105°C
Solids Content, %	47
Viscosity @ 20 °C, mPa·s (cP): Speed 20 rpm	900
Density, kg/cm ³	1,340
Theoretical coverage, m ² /kg: @ 10 µm coating thickness	10
Shelf Life @ 5 to 30°C, year	1
Flash Point, °C	14

TYPICAL PROPERTIES OF CURED MATERIAL On Lexan panels, dried 30 minutes @ 70 °C

Physical Properties	
Attenuation @ 15 µm coating thickness, dB	70 to 80
Electrical Properties	
Sheet Resistivity, ohms/sq: @ 25 µm coating thickness	<0.015

BENEFITS

- Excellent conductivity
- Very smooth, bright coating
- Meets UL specification 746-C
- Overspray easily removable with MEK
- Excellent adhesion to substrates such as polycarbonate, ABS, polystyrene and PC/ABS blends

TYPICAL APPLICATIONS

- Plastic enclosures of mobile telephones; laptop and notebook personal computers; industrial, military, scientific and medical equipment.

SURFACE PREPARATION

Make sure substrate is clean (free from dirt and grease) and dry.

MIXING AND DILUTION

Thoroughly mix Silver Coating 3830 before use. Check to make sure there are no unmixed solids at the bottom of the container.

By brush:

Use Silver Coating 3830 neat for brush application.

By spray:

Use Methyleneethylketone (MEK)

By Volume: 2 part(s) product to 1 part(s) solvent

By Weight: 1 part(s) product to 1 part(s) solvent

If the evaporation speed of this mixture is too high, replace 10 to 15% of the Methyleneethylketone (MEK) by Diacetone Alcohol (DAA).

ORDER EXAMPLE

Series

3830

Conductive Silver Coating 30Gr package