PPG Industrial Coatings
Electronic Materials Group

SERIES 599-A8219-1PC
Copper Conductive Coating

Features

A sprayable metallic coating system using a specially formulated non-oxidizing copper as the conductive agent. Developed for use as an RFI and EMI shield for plastic electronic equipment housings.

599-A8219-1PC can be used on acrylic, ABS and structural foams, e.g. Valox, etc. as well as solvent sensitive substrates such as polycarbonate and polystyrene. For Noryl use 599-Y2000T (Y1371).

Product Description

SYSTEM:	One component, air dry.
DENSITY:	8.3 +/- .2lbs. per gallon (1.0 +/-0.024 kg. per liter)
SOLIDS:	25% +/- 2% by weight
VISCOSITY @75˚F +/- 3˚F (24˚C +/- 2˚C):	18 +/- 2 sec #2 EZ Viscosity Cup (Mfr. Paul N Gardner)
THINNER:	Check viscosity after thorough mixing. Adjust to 18 seconds #2 viscosity cup with MEK.
APPLICATION METHOD:	Cup gun or pressure pot with agitation to keep copper in suspension.
DRYING TIME:	30 minute flash off at room temperature; then 30 minutes @ 140˚F (60˚C).
ADHESION:	Excellent to most plastic substrates.
HUMIDITY RESISTANCE:	No change in resistivity or attenuation when tested in accordance with MIL-STD-202 Method 106-40 cycles; MIL-STD-810 Method 507 Procedure 5 – 480 hours cycling; Meets UL Specification 746-C.

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SURFACE RESISTIVITY:	<0.060 ohms/square @ 1 mil (25 microns) dry film thickness. <0.030 ohms/square @ 2 mils(50 microns) dry film thickness.
ATTENUATION:	More than 75 dB from 1 MHz to 1 Ghz.
THEORETICAL COVERAGE: (COMPUTED FROM SOLIDS BY VOLUME)	164 SF/ gallon/ mil (4.03 m^2 per liter per 25 microns) @ 100% efficiency.
STORAGE LIFE:	Recommended storage in unopened containers is 12 months from date of shipment. Older material should have all Q.C. requirements rechecked before using.
Note:	The solvent system of this product is designed for fast drying and early measuring of conductivity. In hot, humid weather the fast drying may result in sporadic blushing. The addition of 2-3% butyl cellosolve will eliminate blushing. This will slightly increase the time required to achieve final surface resistivity readings.

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