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120-12

CARBON FILLED, WATERBORNE, LOW V.O.C., ELECTROSTATIC DISSIPATIVE, SCREEN-PRINTABLE, CONDUCTIVE INK & COATING

DESCRIPTION: 120-12 is a carbon filled waterborne, low V.O.C., electrically conductive ink and coating, suitable for application by screen-printing. This product features adhesion to Kapton, glass, and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 120-12 include, but are not limited to, medical electrodes, polymer thick film circuitry, membrane switches and static elimination. 120-12 is a higher resistance version of 119-47.

TYPICAL CURED PROPERTIES:

Viscosity (cps.)	4,000-5,000
Crease Resistance	Excellent
Sheet Resistivity, 100°C cure (ohm/sq./mil.)	700,000-1,300,000
Solderable	No
Hydrolytic Stability (°C)	Excellent
Useful Temperature Range (°C)	-55 to +140
Thermal Stability (°C)	Good to 175
V.O.C.'s (grams/liter)	158

SUGGESTED HANDLING & CURING: Before using mix well to resuspend filler. 120-12 is supplied at a viscosity suitable for screen-printing. This product can be thinned with distilled water for application for rotogravure and flexographic printing techniques. Best properties are obtained on a variety of substrates by curing for 10 minutes at 100°C. Good properties are also obtained on a variety of substrates by curing at temperatures ranging from 50°C to 175°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life: 6 months at 21°C. DO NOT ALLOW TO FREEZE.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to results or possible infringements on patents.

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