creative materials
incorporated

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120-11

ELECTRICALLY CONDUCTIVE COATING

DESCRIPTION: 120-11 is an electrically conductive ink and coating, which is particularly useful in the manufacturing of tantalum capacitors. The product features excellent adhesion to Kapton, Mylar, glass and a variety of other substrates. Unlike conventional conductive materials, this product is very resistant to abrasion, scratching and thermal aging. Some applications for 120-11 include, but are not limited to, coatings for tantalum capacitors, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry and membrane switches.

TYPICAL CURED PROPERTIES:

Viscosity (cps.)	375-450
Binder Type	Acrylic
Filler	Silver
Percent Silver (Uncured)	40.5-44.0
Sheet Resistivity, max. (Ω/sq./mil)	0.1
Settling Rate, max. (inch/hour at 22°C)	0.125
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to 200
Thermal Stability (°C)	Good to 300

SUGGESTED HANDLING & CURING: 120-11 is ready to use as supplied. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for 15 minutes at room temperature followed by 1 hour at 100°C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50°C to 150°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life: 6 months at 25°C. in sealed, unopened containers.

SAFETY & HANDLING: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

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 suitability in a particular application or possible infringements on patents.

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