CREATIVEMATERIALS

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ISO 9001 CERTIFIED

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120-16

ELECTRICALLY CONDUCTIVE, CARBON FILLED, EPOXY INK

DESCRIPTION: 120-16 is a carbon filled, screen-printable, electrically conductive, epoxy based ink and coating suitable for application by screen- printing, dipping and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 120-16 include, but are not limited to, printed potentiometers, printed resistors, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches and anode coatings for tantalum capacitors.

TYPICAL CURED PROPERTIES:

Consistency	Smooth Paste
Filler	Carbon
Volume Resistivity (Ω-cm)	10.0
Sheet Resistivity, max. (Ω/sq./ mil.)	4000
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +200
Thermal Stability (°C)	Good to 325

SUGGESTED HANDLING & CURING: 120-16 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner #203. Prior to using, be certain to resuspend filler. Best properties, for most applications, result when cured for 10 minutes at 150°C. Good properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 50°C to 200°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life: 3 months at 25°C; or 6 months at 5°C; or 12 months at –10 ºC.

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.

REVISION DATE: 3/10/11 REVISION: B