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124-40

ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 124-40 is an electrically conductive ink, coating and adhesive suitable for application by screen-printing, stamping, dipping and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, Surlyn®, glass and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 124-40 include, but are not limited to, EMI/RFI shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, electrical attachments for surface mounted devices, and anode coatings for tantalum capacitors. 124-40 is a smaller particle size version of 101-59.

TYPICAL CURED PROPERTIES:

Consistency Smooth Paste

Filler Silver
Percent Silver, cured 84

Crease Resistance Excellent

Volume Resistivity (Ω -cm) 0.00004 Sheet Resistivity (Ω /sq/mil) 0.0150

Solderable

Hydrolytic Stability Excellent
Useful Temperature Range (°C) -55 to +200

Thermal Stability (°C) Good to 325

Wet Coverage (in²/gm/mil) 27.0 Specific Gravity 2.24

SUGGESTED HANDLING & CURING: 124-40 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner 102-03 and/or 113-12. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for 20 minutes at 125°C. Good properties are obtained on a variety of substrates by dry and 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 25°C; or 9 months at 5°C; or 12 months at -10°C.

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 results or possible infringements on patents.

REVISION DATE: 10/3/07 REVISION: A