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125-13

ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 125-13 is an electrically conductive ink, coating and adhesive suitable for application by stamping, screen printing, dipping and syringe dispensing. Unlike conventional conductive materials, 125-13 is capable of being printed at very fine line widths and spaces. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. This product is very resistant to flexing and creasing. Some applications for 125-13 include, but are not limited to, EMI/RFI shielding of polyimide flexible circuits, polymer thick film circuitry, and membrane switches.

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)	0.015
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to +200
Thermal Stability ($^{\circ}$ C)	Good to 325
Wet Coverage ($\text{in}^2/\text{gm}/\text{mil}$)	28.0
Specific Gravity	2.14

SUGGESTED HANDLING & CURING: 125-13 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner #203 and/or butyl cellosolve acetate. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for several minutes at 170 $^{\circ}$ C to 180 $^{\circ}$ C. Good properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 50 $^{\circ}$ C to 150 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life - 6 months at 25 $^{\circ}$ C; or 9 months at 5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ 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: 12/22/08 REVISION: A