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## 125-33

### ELECTRICALLY CONDUCTIVE COATING

**DESCRIPTION:** 125-33 is an electrically conductive ink, coating and adhesive which is particularly useful for electroless plating. This system is designed to maintain stable viscosity during all application methods and has a low odor. 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 125-33 include, but are not limited to, electroless plating, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, conductive ink for polymer thick film circuitry, and coatings for tantalum capacitors. 125-33 is suitable for application by dipping and syringe dispensing. 125-33 is a higher viscosity version of 110-16.

#### **TYPICAL CURED PROPERTIES:**

Viscosity (cps)	8,000
Filler	Silver
Percent Silver	> 68
Settling Rate (mL/hr)	0.027
Volume Resistance (ohm-cm)	0.0001 max.
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to 250
Thermal Stability (°C)	Good to 325

**SUGGESTED HANDLING & CURING:** 125-33 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of butyl cellosolve acetate and/or CMI Thinner #203. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for 1 hour at 175°C with a post cure of 1 hour at 200°C. Good properties are 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: 3 months at 25°C; or 6 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 suitability in a particular application or possible infringements on patents.*

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