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121-48

ELECTRICALLY CONDUCTIVE COATING

DESCRIPTION: 121-48 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 121-48 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. 121-48 is suitable for application by dipping and syringe dispensing. 121-48 is a lower viscosity version of 110-16(i).

TYPICAL CURED PROPERTIES:

Viscosity (cps)	4,500 – 4,750
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 200
Thermal Stability (°C)	Good to 325

SUGGESTED HANDLING & CURING: 121-48 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. 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: 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.