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120-47

PAD-PRINTABLE, ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 120-47 is a pad-printable, silver filled, acrylic based, ink and coating designed for producing fine resolution, electrically conductive traces on rigid and flexible circuit boards. This material provides excellent adhesion to aluminum, glass, Mylar, Kapton, and a variety of other substrates. Some additional applications for 120-47 include, but are not limited to, EMI/RFI shielding, polymer thick film circuitry, membrane switches and circuit repair. Unlike conventional conductive materials the 120-47 provides a high degree of Isopropyl Alcohol resistance.

TYPICAL CURED PROPERTIES:

Viscosity (cps.)	10,000 – 12,000
Filler	Silver
Percent Silver, cured	>85
Crease Resistance	Good
Volume Resistivity (ohm-cm)	0.000055
Sheet Resistivity (ohm/sq./mil)	0.022
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +150

SUGGESTED HANDLING & CURING: 120-47 is ready to use as supplied. Further thinning may be accomplished by adding small amounts CMI Thinner # 113-39, or CMI Retarder # 114-20. Prior to using, be certain to resuspend silver. The ultimate conductivity, and chemical resistance is obtained by curing at 150°C for 5-10 minutes. End user is advised to experimentally determine the cure schedule best suited for the individual application.

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: 6/16/99 REVISION: A