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119-27

MEDICAL ELECTRODE INK

DESCRIPTION: 119-27 is a carbon/silver/silver chloride, medical grade, electrically conductive ink and coating suitable for application by screen-printing, dipping and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 119-27 include, but are not limited to, transdermal drug delivery, ECG electrodes, tens electrodes and muscle stimulator electrodes.

TYPICAL CURED PROPERTIES:

Viscosity (cps)	15,000 - 20,000
Filler	Carbon/Silver/Silver Chloride
Crease Resistance	Excellent
Volume Resistivity (ohm-cm)	0.04
Sheet Resistivity (ohm/sq)	15.0
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +200
Thermal Stability (°C)	Good to 325

SUGGESTED HANDLING & CURING: 119-27 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner # 102-03. Prior to using, be certain to resuspend fillers. Best properties, for most applications, result when cured for several minutes at 100°C. Good properties are obtained on a variety of substrates by dry and 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: 6 months at 25°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.