



141 Middlesex Road (RT. 3A) • Tyngsboro, MA 01879 • (978) 649-4700 • FAX (978) 649-2040 • www.creativematerials.com

## 122-37

### CONDUCTIVE INK & COATING FOR MEDICAL ELECTRODES

**DESCRIPTION:** 122-37 is a silver/ silver chloride filled, electrically conductive ink and coating suitable for application by flexographic and rotogravure printing methods. 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. 122-37 was specifically designed for use in combination with CMI #122-36, for the manufacturing of EKG and transdermal drug delivery electrodes. 122-37 is a version of CMI 122-25, that has a slightly slower evaporation rate.

#### TYPICAL CURED PROPERTIES:

Viscosity (cps.)	450-550
Filler	Silver/ Silver Chloride
Crease Resistance	Excellent
Volume Resistivity ( $\Omega$ -cm)	0.002
Sheet Resistivity ( $\Omega$ /sq/mil. max.)	0.8
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ( $^{\circ}$ C)	-55 to +200
Thermal Stability ( $^{\circ}$ C)	Good to 325

**SUGGESTED HANDLING & CURING:** 122-37 is ready to use as supplied. Before using, mix well to resuspend any filler that may have settled during storage. Further thinning may be accomplished by adding small amounts of methyl ethyl ketone, diacetone alcohol, or CMI Thinner #112-18. Good properties, for most applications, result when cured for several minutes at room temperature. Best properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 50 $^{\circ}$ C to 100 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf Life: 6 months at 21 $^{\circ}$ 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: 5/3/02 REVISION: A