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## 126-35

### ECONOMICAL HIGH COVERAGE 1 OHM/SQ COATING

**DESCRIPTION:** 126-35 is an ink/coating with very high coverage and good electrical conductivity for application by screen-printing, dipping and syringe dispensing. The product features excellent adhesion to Mylar, glass and a variety of other substrates. The proper use of this ink can result in a significant cost saving. Unlike conventional conductive materials, this product is very resistant to abrasion, scratching, flexing and creasing. Some applications for 126-35 include, but are not limited to, RFID antennae, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, and membrane switches. 126-35 can be blended with 125-15 (0.01 ohm/sq/mil version) or 112-47 (25,000 ohm/sq/mil version) to obtain a range of conductivities.

#### TYPICAL PROPERTIES:

Viscosity (cps)	25,000-35,000
Crease Resistance	Excellent
Volume Resistance, max. ( $\Omega$ -cm)	0.0025
Sheet Resistance, max. ( $\Omega$ /sq/mil)	1.0
Coverage (1 gram @ 0.5 mils wet, in <sup>2</sup> )	> 80
Pencil Hardness	> 2H
Hydrolytic Stability	Excellent
Useful Temperature Range ( $^{\circ}$ C)	-55 to 200

**SUGGESTED HANDLING & CURING:** 126-35 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI thinner 112-19 or 113-12. Prior to use, be certain to mix well to re-suspend silver. **Best properties** for most applications result when cured for 5 minutes at 120 $^{\circ}$ C. Excellent properties are also obtained on a variety of substrates by curing at temperatures ranging from 50 $^{\circ}$ C to 175 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf life: 3 months at 25 $^{\circ}$ C; or 6 months at 5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ 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 suitability in a particular application or possible infringements on patents.*

**REVISION DATE: 02/11/15 REVISION: A**