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**119-47**

**CARBON FILLED, WATERBORNE, LOW V.O.C., SCREEN-PRINTABLE,  
CONDUCTIVE INK & COATING**

**DESCRIPTION:** 119-47 is a carbon filled waterborne, low V.O.C., electrically conductive ink and coating, suitable for application by screen-printing. This product features adhesion to Kapton, glass, and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 119-47 include, but are not limited to, medical electrodes, polymer thick film circuitry, and membrane switches and static elimination.

**TYPICAL CURED PROPERTIES:**

Viscosity (cps.)	3000-4000
Crease Resistance	Excellent
Sheet Resistivity, 100°C cure ( $\Omega$ /sq./mil. max.)	250
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +140
Thermal Stability (°C)	Good to 175
V.O.C.'s grams/liter	139

**SUGGESTED HANDLING & CURING:** Before using mix well to resuspend filler. 119-47 is supplied at a viscosity suitable for screen-printing. This product can be thinned with distilled water for application for rotogravure and flexographic printing techniques. Best properties are obtained on a variety of substrates by curing for 10 minutes at 100°C. Good properties are also obtained on a variety of substrates by curing at temperatures ranging from 50°C to 175°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf Life: 3 months at 21°C. DO NOT ALLOW TO FREEZE.

*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.*

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