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119-47

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

<u>DESCRIPTION</u>: 119-47 is a carbon filled waterborne, low V.O.C., electrically conductive ink and coating. 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 (Ω /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 re-suspend filler. 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: 6 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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