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126-43

FLEXIBLE SOLVENT-RESISTANT PLATEABLE ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 126-43 is a plateable, solvent-resistant, stencil-printable, electrically conductive ink and coating. This product features excellent adhesion to Kapton, Mylar, glass, and a variety of other substrates. Unlike conventional conductive materials, this product is very resistant to harsh chemical environments including plating baths. It is also very resistant to scratching and creasing. Some applications for 126-43 include, but are not limited to, EMI/RFI shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, electrical attachments for surface mounted devices, and anode coatings for tantalum capacitors.

TYPICAL CURED PROPERTIES:

Viscosity (10/s @ 25°C)	35,000-45,000 cPs
Filler	Silver
Percent Silver (cured)	> 85
Crease Resistance	Excellent
Volume Resistance* (ohm-cm, MAX)	0.00006
Sheet Resistivity* (ohm/sq./mil, MAX)	0.025
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +230
Thermal Stability (°C)	Good to 325

SUGGESTED HANDLING & CURING: 126-43 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner 102-03 and/or Thinner 113-12. Prior to using, be certain to re-suspend silver. **Best** properties result when cured for 1 hour at 150°C. Curing schedules between 125°C and 225°C can be used for good properties in most applications. End user is encouraged to experiment and determine optimum curing schedule.

STORAGE: Shelf life: 1 months at 25°C; or 3 months at 5°C; or 12 months at -10 °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.

**When cured for 45 minutes at 175°C*

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.

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