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127-02A/B119-44

FLEXIBLE SOLVENT-RESISTANT ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 127-02A/B119-44 is a flexible two component, solvent-resistant, electrically conductive ink, coating and adhesive suitable for screen-printing circuit lines. This product features excellent adhesion to Kapton, Mylar, glass, polycarbonate and a variety of other substrates. Unlike conventional conductive materials, this product is very resistant to methyl ethyl ketone. It also is especially resistant to flexing and creasing. Some applications for 127-02A/B119-44 include, but are not limited to, flexible LEDs, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, electrical attachments for surface mounted devices, bus bars on Indium Tin Oxide sputtered surfaces, and anode coatings for tantalum capacitors. This product is designed for use in crossovers with CMI product 116-20, a UV curable dielectric.

MIX RATIO (by weight):

Part A	B119-44
100	1.2
Pot Life: 2 weeks.	

MIXING INSTRUCTIONS: Premix 127-02 Part A, in original container prior to adding curing agent. Add B119-44 and mix until uniform. At this point the material may be thinned by adding small amounts of CMI 120-08 thinner.

TYPICAL CURED PROPERTIES:

Consistency	Smooth Paste
Filler	Silver
Percent Silver (cured)	> 85
Crease Resistance	Excellent
Volume Resistance (ohm-cm)	0.00005
Sheet Resistivity (ohm/sq./mil)	0.019
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +200
Thermal Stability (°C)	Good to +200

CURE SCHEDULE:

80°C	4 Hours
100°C	1 Hour
125°C	20 Min.

STORAGE: Shelf life: 12 months at 25°C, in unopened, unmixed containers. Though this product has a long pot life at room temperature it is still good practice to freeze catalyzed material when not in use.

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. **Note:** It is not unusual for crystallization of the Part B to occur. Warm to 40-45°C in a water bath to return the material to it's original viscosity. The crystallization does not affect the performance of the product in any way.

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 particular application or possible infringements on patents.

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