



Creative Materials, Inc.  
12 Willow Road  
Ayer, MA 01432

T 978.391.4700  
F 978.391.4705

**122-04 A/B119-44**

**SOLVENT-RESISTANT ELECTRICALLY CONDUCTIVE INK**

**DESCRIPTION:** 122-04 A/B119-44 is a two component, fine silver particle filled, 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 is also very resistant to scratching and creasing. Some applications for 122-04 A/B119-44 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, 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, an ultraviolet curable dielectric. 122-04 A/B119-44 is a version of CMI 118-09 A/B119-44, that provides for a longer screen residence time.

<b>MIX RATIO</b> (by weight)	<b>Part A</b>	<b>Part B119-44</b>
	100	1.5
	Pot-Life > 4 days	

**MIXING INSTRUCTIONS:** Premix 122-04 parts A, in original container to resuspend the filler, prior to adding curing agent. Add Part B119-44 and mix until uniform. At this point the material may be thinned by adding small amounts of CMI 102-03 thinner.

**TYPICAL CURED PROPERTIES:**

Viscosity (cps.)	12,000 – 16,000
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.

**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 results or possible infringements on patents.*

REVISION DATE: 3/7/14 REVISION: B