



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

T 978.391.4700  
F 978.391.4705

**118-12A/B119-44**

**SOLVENT-RESISTANT DIELECTRIC INK**

**DESCRIPTION:** 118-12 is a two component, solvent-resistant, electrically insulating ink, coating and adhesive suitable for screen printing. 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 118-12 include, but are not limited to, dielectric insulation of thick film circuitry, improving moisture resistance, arc track resistance, and weathering resistance of electrical/electronic devices. 118-12 is a clear version of 118-08.

**TYPICAL CURED PROPERTIES:**

Viscosity (cps)	20,000
Volume Resistivity (ohm-cm)	1x10 <sup>16</sup>
Dielectric Constant (50 Hz)	4.0
Dielectric Strength (volts/mil)	450
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +200
Thermal Stability (°C)	Good to +280

**MIXING INSTRUCTIONS:** Premix 118-12 Part A, in original container prior to adding curing agent. Add Part B and mix until uniform. At this point the material may be thinned by adding small amounts of CMI 113-12 thinner.

**CURING INSTRUCTIONS:**

	<u>Part A</u>	<u>Part B119-44</u>
Mix ratio by weight	100	2.0
Cure schedule	100°C	1 hr.
	125°C	30 min.
	150°C	15 min.
	175°C	10 min.
Pot-Life at 25°C	Up to 2 weeks (mixed).	

**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 suitability in a particular application or possible infringements on patents.*