



118-12

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 ¹⁶
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 320

MIXING INSTRUCTIONS: Premix 118-12 part A, in original container prior to adding curing agent. Add 118-12 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 B</u>
Mix ratio by weight	100	2.0
Cure schedule	80°C	4 Hours
	90°C	2 hours
	100°C	1 hour
Pot-Life at 25°C	>72 hours	

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.