



Creative Materials, Inc.  
141 Middlesex Road  
Tyngsboro, MA 01879

T 978.649.4700  
F 978.649.2040

## 120-18

### SOLVENT-RESISTANT DIELECTRIC INK

**DESCRIPTION:** 120-18 is a two component, amber colored, 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 120-18 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.

#### TYPICAL CURED PROPERTIES:

Viscosity (cps)	20,000
Volume Resistivity ( $\Omega$ -cm)	$1 \times 10^{16}$
Dielectric Constant (50 Hz)	4.0
Hydrolytic Stability	Excellent
Useful Temperature Range ( $^{\circ}$ C)	-55 to 200
Thermal Stability ( $^{\circ}$ C)	Good to 320

**MIXING INSTRUCTIONS:** Premix 120-18 part A, in original container prior to adding curing agent. Add 120-18 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 $^{\circ}$ C 4 Hours 90 $^{\circ}$ C 2 hours 100 $^{\circ}$ C 1 hour	
Pot-Life at 25 $^{\circ}$ C:	>72 hours	

**STORAGE:** Shelf life: 12 months at 25 $^{\circ}$ 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: 10/15/98 REVISION: A