



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

T 978.391.4700
F 978.391.4705

125-47A/B

OPAQUE BLACK DIELECTRIC INK

DESCRIPTION: 125-47A/B is an opaque black, two component, solvent-resistant, electrically insulating ink and coating suitable for screen-printing. This product features excellent adhesion to Kapton®, Mylar®, glass, polycarbonate ITO coated substrates and a variety of other substrates. Unlike conventional dielectric materials, this product is very resistant to methyl ethyl ketone. It is also very resistant to scratching and creasing. Some applications for 125-47A/B 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. 125-47 A/B is intended to be used in conjunction with 125-48 which is a color matched electrically conductive ink and coating. 125-47 can also be offered in a single component version.

MIXING INSTRUCTIONS: Premix 125-47 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 120-08 thinner.

	Part A	B119-44
Mix ratio by weight	100	2.0
Pot-Life once mixed at 25°C	4 Days	

CURE SCHEDULE:

Time	Temperature (°C)
4 hours	80
1 hour	100
45 mins	120
5 mins	175

TYPICAL CURED PROPERTIES:

Color	Opaque Black
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 250
Thermal Stability (°C)	Good to 325

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. **Note:** It is not unusual for crystallization B119-44 to occur. Warm to 40-45°C in a water bath to return the material to its original viscosity. The crystallization does not affect the performance of the product in any way. To prevent re-crystallization, store the catalyst at temperatures between 35-45°C.

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.

REVISION DATE: 5/31/12 REVISION: B