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## 124-27A/B

### ROOM TEMPERATURE CURING ELECTRICALLY CONDUCTIVE INK

**DESCRIPTION:** 124-27A/B is a two component, 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. 124-27A/B can be cured at room temperature or low elevated heat. Best properties are obtained when cured at higher temperatures or longer periods of time. It is very resistant to scratching and creasing. Some applications for 124-27A/B 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 or 125-17M, UV curable dielectrics. 124-27A/B is a room temperature curing version of 118-09A/B

**MIX RATIO** (grams by weight):

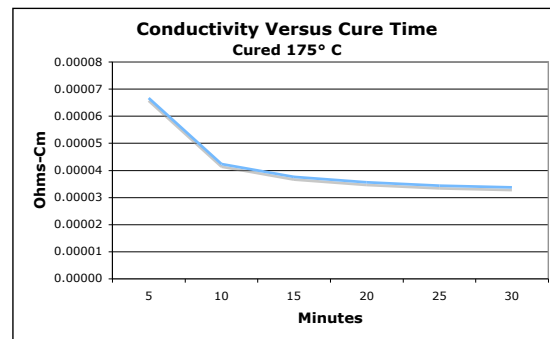
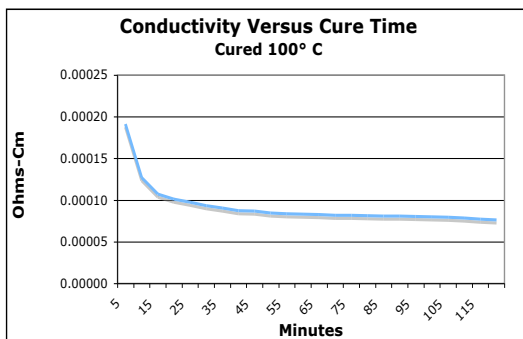
<u>Part A</u>	<u>Part B</u>
100	1.8
Pot Life: 24 hours.	

**MIXING INSTRUCTIONS:** Premix 124-27 part A, in original container prior to adding curing agent. Add 124-27 Part B and mix until uniform. At this point the material may be thinned by adding small amounts of CMI 113-12 thinner if needed.

**TYPICAL CURED PROPERTIES:**

Consistency	Smooth Paste
Filler	Silver
Percent Silver (cured)	> 85
Volume Resistance (ohm-cm)	0.00008, 50 min. @ 100° C
	0.00004, 10 min. @ 175° C
	0.0001, 72 hrs at ambient temperature (21° C)
Crease Resistance	Excellent
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to 200
Thermal Stability (°C)	Good to 200

**CURE SCHEDULE:** These are presented as guides only. We encourage the end-user to experiment.



**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 particular application or possible infringements on patents.*

REVISION DATE: 11/19/12 REVISION: B