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114-34A/B-187

SOLVENT-RESISTANT 150 OHM/SQUARE INK

DESCRIPTION: 114-34 A/B-187 is a two component, solvent-resistant 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. 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 114-34A/B-187 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, a UV curable dielectric. The combination of the 114-34 part A with the B-187 curing agent allows for curing at a temperature of 65°C. 114-34A/B-187 may be blended with 118-09 A/B-187 to provide a wide range of conductivity levels for various applications.

TYPICAL CURED PROPERTIES:

Consistency	Smooth Paste
Filler	Carbon
Crease Resistance	Excellent
Volume Resistance (Ω-cm)	0.40
Sheet Resistivity, max. (Ω/sq./mil)	150
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to 200
Thermal Stability (°C)	Good to 200

<u>MIX RATIO BY WEIGHT:</u>	<u>114-34 A</u>	<u>B-187</u>
	100	2.00
	Pot Life: 4 hours	

MIXING INSTRUCTIONS: Premix 114-34 part A in original container prior to adding curing agent. Add Part B-187 to 114-34A and mix until uniform. At this point the material can be thinned by adding small amounts of CMI 113-12 thinner.

<u>CURE SCHEDULE</u>	65°C	16 hours
	80°C	4 hours
	125°C	20 mins.

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 of the B-187 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 recrystallization, 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 a particular application or possible infringements on patents.