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120-13

ELECTRICALLY CONDUCTIVE SILICONE INK

DESCRIPTION: 120-13 is a two component, electrically conductive, silicone ink and coating. This product features excellent adhesion to Kapton, Mylar, glass, and a variety of other substrates. Unlike conventional conductive materials, this product is very flexible and tactile. Some applications for 120-13 include, but are not limited to, emi/rfi shielding of polyimide flexible circuits, shielding of silicone gasket materials, and conductive coatings on silicone materials. 120-13 is useful for application requiring flexibility at very low temperatures. Product is very useful as a coating on silicone substrates. 120-13 is a version of 115-08 in a concentrated, two component form.

TYPICAL CURED PROPERTIES:

Consistency	Paste
Filler	Silver
Percent Silver (cured)	87
Crease Resistance	Excellent
Volume Resistance (ohm-cm)	0.00015
Sheet Resistivity (ohm/sq./mil)	0.06
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +200
Thermal Stability (°C)	Good to 325

MIXING INSTRUCTIONS: Premix 120-13 part A, in original container prior to adding curing agent. Add 120-13 Part B and mix until uniform. At this point the material may be thinned for dipping or spraying by adding xylene.

SUGGESTED HANDLING & CURING: Best properties, for most applications, result when allowed to dry at room temperature followed by curing for 5-10 min. at 175°C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50°C to 150°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

	<u>Part A</u>	<u>Part B</u>
Mix ratio by weight	100	1.12
	Pot-Life at 25°C	24 hours un-thinned)

STORAGE: Shelf life: 6 months at -10°C.

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.

REVISION DATE: 7/15/98 REVISION: A