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## 124-47

### **FLEXIBLE, HIGH TEMPERATURE, ELECTRICALLY CONDUCTIVE INK AND COATING**

**DESCRIPTION:** 124-47 is a flexible, electrically conductive, silicone ink and coating suitable for spraying. Unlike conventional conductive inks and coatings, 124-47 adheres to low surface energy substrates and has high temperature resistance as well as low temperature flexibility. This product exhibits excellent solvent resistance. Some applications for 124-47 include, but are not limited to, silicone gasket coatings, emi/rfi shielding of a wide variety of plastics and polymer thick film circuitry. 124-47 is one of the few conductive adhesives that can bond to silicone substrates and surfaces. In addition, it can be used on some types of Teflon® surfaces. 124-47 is a sprayable version of 102-32/B507.

#### **TYPICAL CURED PROPERTIES:**

Consistency	Thin Liquid
Filler	Silver
Percent Silver (cured)	78
Crease Resistance	Excellent
Volume Resistance ( $\Omega$ -cm)	0.0001
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ( $^{\circ}$ C)	-70 to +260
Thermal Stability ( $^{\circ}$ C)	Good to 325

**SUGGESTED HANDLING & CURING:** 124-47 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of Methyl Ethyl Ketone. Prior to using, be certain to re-suspend silver. Apply thin film of adhesive to both surfaces to be bonded. Best properties, for most applications, result when cured for 1 to 2 hours at 150 $^{\circ}$ C followed by 1 week at room temperature. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf life: 2-3 months at 25 $^{\circ}$ C. Store frozen to slow settling.

**SAFETY & HANDLING:** Contains flammable solvents. 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: 1/4/10 REVISION: C**