



141 Middlesex Road (RT. 3A) • Tyngsboro, MA 01879 • (978) 649-4700 • FAX (978) 649-2040 • www.creativematerials.com

## 120-03

### STENCILABLE, FLEXIBLE, ELECTRICALLY CONDUCTIVE ADHESIVE

**DESCRIPTION:** 120-03 is a flexible electrically conductive adhesive. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other substrates. Unlike conventional conductive materials, this product is very flexible. Product can be rebonded many times by simply applying heat and slight pressure. Some applications for 120-03 include, but are not limited to, electrical attachments for surface mounted devices and heat sealing openings in emi/rfi enclosures. 120-03 is useful for applications requiring flexibility at very low temperatures. 120-03 is a stencilable version of CMI 107-02.

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

Consistency	Thick Liquid
Filler	Silver
Crease Resistance	Excellent
Volume Resistance (ohm-cm)	0.004
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to 120
Thermal Stability (°C)	Good to 200

**SUGGESTED HANDLING & CURING:** 120-03 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner #203. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when dried several minutes at 100°C followed by curing for 5-10 minutes at 175°C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50°C to 175°C. When used as a sealant, apply adhesive to surfaces to be bonded and dry for several minutes at 150°C, then place substrates together while heating and applying slight pressure. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf life: 6 months at 25°C; or 9 months at 5°C; or 12 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: 3/13/98 REVISION: A