



Creative Materials, Inc.
141 Middlesex Road
Tyngsboro, MA 01879

T 978.649.4700
F 978.649.2040

124-33 FLEXIBLE ELECTRICALLY CONDUCTIVE ADHESIVE

DESCRIPTION: 124-33 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 resistant to flexing and creasing. Product can be re-bonded many times by simply applying heat and slight pressure. Some applications for 124-33 include, but are not limited to, electrical attachments for surface mounted devices and heat-sealing openings in emi/rfi enclosures. 124-33 is useful for applications requiring flexibility at very low temperatures. 124-33 features a higher glass transition temperature than the conventional 106-48 and a lower resistivity than 107-02.

TYPICAL CURED PROPERTIES:

Consistency	Liquid
Filler	Silver
Crease Resistance	Excellent
Volume Resistance (Ω -cm)	0.0005
Sheet Resistivity (Ω /sq./mil)	0.20
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to 120
Thermal Stability ($^{\circ}$ C)	Good to 200

SUGGESTED HANDLING & CURING: 124-33 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 re-suspend silver. Best properties, for most applications, result when dried several minutes at 100 $^{\circ}$ C followed by curing for 5-10 minutes at 175 $^{\circ}$ C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50 $^{\circ}$ C to 175 $^{\circ}$ C. When used as a sealant, apply adhesive to surfaces to be bonded and dry for several minutes at 150 $^{\circ}$ 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 $^{\circ}$ C; or 9 months at 5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ 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.