

Ayer, MA 01432

www.creativematerials.com

**ISO 9001 CERTIFIED** 

т 978.391.4700 F 978.391.4705

## 123-23

## 250,000 OHM/SQUARE INK & COATING

**DESCRIPTION**: 123-23 is a carbon-based, electrically conductive ink, coating and adhesive suitable for application by stamping, screen printing, dipping and syringe dispensing. This product has excellent thermal stability and features excellent adhesion to Kapton®, Mylar®, glass and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 123-23 include, but are not limited to, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, electrical attachments and static elimination. 123-23 can be blended with CMI's 112-48 (20  $\Omega$ /square), 112-15 (0.010  $\Omega$ /square), or 112-47 (25,000 $\Omega$ /square) in any ratio to obtain in-between electrical conductivity.

## TYPICAL CURED PROPERTIES:

Consistency	Smooth Paste
Filler	Carbon
Crease Resistance	Excellent
Volume Resistivity (Ω-cm)	630
Sheet Resistivity ( $\Omega$ /sq)	250,000
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +200
Thermal Stability (°C)	Good to 325

**SUGGESTED HANDLING & CURING**: 123-23 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner#112-19. <u>Best</u> properties, for most applications, result when cured for 5 minutes at 125°C. <u>Good</u> properties are obtained on a variety of substrates by dry and 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.

**STORAGE**: Shelf Life: 6 months at 21°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.