



Creative Materials, Inc.
12 Willow Road
Ayer, MA 01432

T 978.391.4700
F 978.391.4705

122-15

PLATABLE, ELECTRICALLY CONDUCTIVE COATING

DESCRIPTION: 122-15 is a screen-printable, electrically conductive ink, coating and adhesive which is particularly useful for electroless and electrolytic plating. This system is designed to maintain stable viscosity during all application methods and has a low odor. The product features excellent adhesion to Kapton, FR-4 board, glass and a variety of other substrates. Unlike conventional conductive materials, this product is very resistant to abrasion, scratching and thermal aging. Some applications for 122-15 include, but are not limited to, electroless and electrolytic plating, plated through holes, membrane switches, conductive ink for polymer thick film circuitry, and coatings for tantalum capacitors.

TYPICAL PROPERTIES:

Viscosity (cps)	20,000 – 25,000
Filler	Silver
Percent Filler (cured)	> 78
Volume Resistance, max (Ω -cm)	0.0001
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to +230
Thermal Stability ($^{\circ}$ C)	Good to 330

SUGGESTED HANDLING & CURING: 122-15 is ready to use as supplied. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for 1 hour at 150 $^{\circ}$ C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50 $^{\circ}$ C to 150 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life: 2 month at 25 $^{\circ}$ C; or 6 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 results or possible infringements on patents.

REVISION DATE: 10/3/01 REVISION: A