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120-07(LPS)

SCREEN-PRINTABLE ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 120-07(LPS) is a screen-printable, electrically conductive ink, coating and adhesive suitable for application by stamping, screen-printing, dipping and syringe dispensing. This product features excellent adhesion to Kynar, Kapton, Mylar, polycarbonate, glass and can also be used on low surface energy coatings such as transparent conductive oxides. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 120-07(LPS) include, but are not limited to, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, electrical attachments for surface mounted devices, and anode coatings for tantalum capacitors. 120-07(LPS) is a cross-linking version of 120-07(LP) and a more flexible version of 120-07T.

TYPICAL CURED PROPERTIES:

Viscosity (cps.)	22,000 – 28,000
Filler	Silver
Percent Silver, cured	> 88
Crease Resistance	Excellent
Volume Resistance, max. (Ω -cm)	0.000045
Sheet Resistivity (Ω /sq./mil)	0.015
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to +200

SUGGESTED HANDLING & CURING: 120-07(LPS) is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner 124-13. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for a few minutes at 175 $^{\circ}$ C. Good properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 110 $^{\circ}$ C to 180 $^{\circ}$ C. Not recommended for applications that cannot cure above 110 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life - 6 months at -10 $^{\circ}$ C, or 2 months at 25 $^{\circ}$ C in unopened containers.

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.