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114-04

SPRAYABLE ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 114-04 is a sprayable, electrically conductive ink, and coating. 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 abrasion and scratching. Some applications for 114-04 include, but are not limited to, EMI/RFI shielding of polyimide flexible circuits, shielding electronic packages, and anode coatings for tantalum capacitors. 114-04 can be further cross-linked with B-187 curing agent for applications requiring resistance to solvents and high humidity. 114-04 is a sprayable version of 105-43.

TYPICAL CURED PROPERTIES:

Consistency	Liquid
Filler	Silver
Percent Silver (cured)	85
Crease Resistance	Excellent
Volume Resistance (Ω -cm)	0.00005
Sheet Resistivity (Ω /sq/mil)	0.019
Solderable	No
Solvent Resistance	Excellent
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to 200
Thermal Stability ($^{\circ}$ C)	Good to 325

SUGGESTED HANDLING AND CURING: 114-04 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of Thinner 113-07. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for 30 minutes at 150 $^{\circ}$ C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 25 $^{\circ}$ C to 155 $^{\circ}$ C. Note: Add 0.5phr B-187 catalyst when using low temperature cures. The use of B-187 is suggested to impart a high degree of chemical resistance to the conductive lines. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life: 4 months at 25 $^{\circ}$ C; or 6 months at 5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ C.

SAFETY AND 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.