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118-29

WATERBORNE, LOW V.O.C., SPRAYABLE, CONDUCTIVE INK & COATING

DESCRIPTION: 118-29 is a waterborne, low V.O.C., electrically conductive ink and coating suitable for application by spraying. This product features 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 118-29 include, but are not limited to, medical electrodes, emi/rfi shielding, polymer thick film circuitry, membrane switches and static elimination.

TYPICAL CURED PROPERTIES:

Consistency	Thin Liquid
Filler	Silver
Crease Resistance	Excellent
Volume Resistivity (Ω -cm)	0.0001
Sheet Resistivity (Ω /sq/mil. max.)	0.04
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to +140
Thermal Stability ($^{\circ}$ C)	Good to 175
Coverage (sq. ft./gal. at 1.0 mils dry)	300.79
Volatile Organic Compounds (V.O.C.)	60.8 (grams/liter)

SUGGESTED HANDLING & CURING: 118-29 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of distilled water. Best properties are obtained on a variety of substrates by curing for 10 minutes at 125 $^{\circ}$ C. Good properties are also 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: 6 months at 21 $^{\circ}$ C. DO NOT ALLOW TO FREEZE.

SAFETY & HANDLING: 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: 10/11/96 REVISION: A