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112-15A

EXTREMELY CONDUCTIVE INK

DESCRIPTION: 112-15A is an ink/coating with extremely high electrical conductivity for application by screen-printing, dipping and syringe dispensing. The product features excellent adhesion to Kapton®, Mylar®, glass and a variety of other substrates. **The superior conductivity of this product allows the end user to print narrower and/or longer circuit trace lines without compromising overall maximum ohm values. The proper use of this feature can result in a significant cost saving.** Unlike conventional conductive materials, this product is very resistant to abrasion, scratching, flexing and creasing. Some applications for 112-15A include, but are not limited to, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches and coatings for tantalum capacitors. 112-15A is a lower viscosity version of 112-15.

TYPICAL PROPERTIES:

| | |
|---|------------|
| Viscosity (cps) | 10,000 |
| Filler | Silver |
| Percent Silver (cured) | > 84 |
| Crease Resistance | Excellent |
| Volume Resistance, max. (Ω -cm) | 0.00003 |
| Sheet Resistivity (Ω /square/mil) | 0.010 |
| Hydrolytic Stability | Excellent |
| Useful Temperature Range ($^{\circ}$ C) | -55 to 200 |

SUGGESTED HANDLING & CURING: 112-15A is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI thinner #112-18, #112-19 and/or #105-36. Prior to use, be certain to mix well to resuspend silver. Best properties, for most applications, result when cured for 3 to 5 minutes at 110 $^{\circ}$ C. Excellent properties are also obtained on a variety of substrates by curing at temperatures ranging from 50 $^{\circ}$ C to 175 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life: 6 months at 25 $^{\circ}$ C; or 9 months at 5 $^{\circ}$ C; or 12 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.