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124-43

CARBON FILLED, WATERBORNE, LOW V.O.C., FLEXOGRAPHIC, CONDUCTIVE INK & COATING

DESCRIPTION: 124-43 is a carbon filled waterborne, low V.O.C., electrically conductive ink and coating, suitable for application by flexographic methods. This product features adhesion to Kapton, glass, and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 124-43 include, but are not limited to, medical electrodes, polymer thick film circuitry, and membrane switches and static elimination.

TYPICAL CURED PROPERTIES:

Viscosity (cps.)	800
Crease Resistance	Excellent
Sheet Resistivity, 100°C cure (Ω /sq./mil. max.)	20
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +140
Thermal Stability (°C)	Good to 175
V.O.C.'s grams/liter	139

SUGGESTED HANDLING & CURING: Before using mix well to re-suspend filler. 124-43 is supplied at a viscosity suitable for flexographic printing. This product can be thinned further with distilled water. Best properties are obtained on a variety of substrates by curing for 10 minutes at 100°C. Good properties are also obtained on a variety of substrates by curing at temperatures ranging from 50°C to 175°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life: 6 months at 21°C. **DO NOT ALLOW TO FREEZE.**

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 suitability in a particular application or possible infringements on patents.

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