

**125-24****EXTREMELY CONDUCTIVE COATING**

**DESCRIPTION:** 125-24 is a coating with extremely high electrical conductivity for application by spraying and dipping. The product features excellent adhesion to Kapton, Mylar, glass and a variety of other plastic substrates. Unlike conventional conductive materials, this product is very resistant to abrasion, scratching, flexing and creasing. Some applications for 125-24 include, but are not limited to, EMI/RFI shielding of electronic plastic housings and polyimide flexible circuits.

**TYPICAL PROPERTIES (as supplied):**

Viscosity (#2 Zahn cup @ 25°C)	20 ± 2 sec
Filler	Silver
Binder	Vinyl
Thinner	MIBK
Density	1.5 g/cc
Theoretical Coverage	240 ft <sup>2</sup> /gal/mil
Percent Solids	57.5 ± 1.5 %
VOC	644 g/L

**TYPICAL PROPERTIES (cured):**

Percent Silver (cured)	> 85
Crease Resistance	Excellent
Sheet Resistivity (Ω/square/mil)	<0.020
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to 200

**SUGGESTED HANDLING & CURING:** 125-24 is ready to use as supplied. Further thinning may be accomplished by adding 2:1 or 1:1 (product to thinner) of MIBK as required. Prior to use, be certain to mix well to re-suspend silver, this can be accomplished by mixing on a paint mixer, roller mixer or stirring by hand prior to use.

125-24 can be sprayed using conventional or HVLP systems with recirculation. Recirculation will keep the filler from settling which will result in uniform application and performance.

Typical coating thickness is 0.2 – 1.0 mils depending on shielding requirements.

**Drying/curing guidelines:**

5 minutes air dry to touch  
10 minutes to handle  
then 10 minutes at 230°F or for 24 hours at room temperature.

\* We encourage the end user to experiment to determine optimum drying/curing conditions for your particular application.

**STORAGE:** Shelf life: 4 months at 25°C (in unopened container); or 8 months at 5°C; or 12 months at -10°C.

**SAFETY & HANDLING:** This product is flammable, 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. Please refer to the MSDS for proper handling information.

*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.*

**REVISION DATE: 3/8/10 REVISION: A**