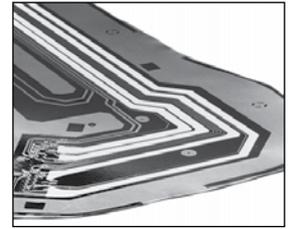


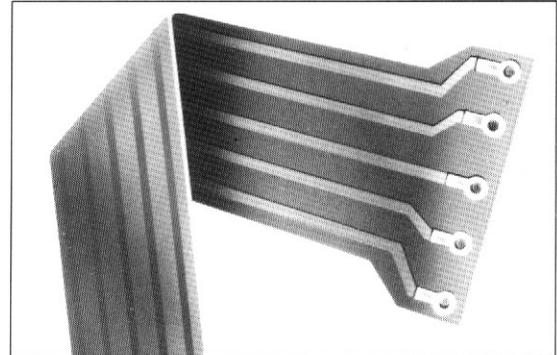
CHO-FLEX™ 601

CONDUCTIVE COATING



Customer Value Proposition:

CHO-FLEX™ 601 one-component conductive coating is designed specifically for EMI shielding of copper/Kapton* flexible circuit laminates and for printing circuits on Kapton film. Upon cure, this coating exhibits excellent adhesive properties, a high degree of flexibility, thermal stability, high conductivity and superior peel strength. CHO-FLEX 601 coating can be applied by spraying or silk-screening methods, and can withstand wave solder temperatures above 500°F without losing any of its exceptional properties.



Features & Benefits:

- One part silver-filled polyurethane coating.
- Spray or screen application.
- High degree of flexibility.
- Withstands wave solder temperatures in excess of 500°F (262°C).
- Exceptional pot life at room temperature. Cures only when heated, i.e. >250°F (122°C)
- Cured resistivity of 100 milliohms or better after wave solder process.

Typical Applications:

CHO-FLEX 601 coating may be silk-screened as is. If thinning is desired, the coating may be thinned with DBE (Dibasic Ester). For spray application, thin CHO-FLEX coating with a solvent blend of MEK/Butanol/Isopropyl alcohol at a ratio of 15/10/6 by volume. Thin two parts of coating with one part of thinner and mix completely (preferably in paint shaker)

* Kapton is a registered trademark of E. I. du Pont de Nemours.

Table 1 Typical Properties

CHO-FLEX 601	
Typical Properties**	Typical Values
Binder	Polyurethane
Filler	Silver
Color	Silver
Solids by weight	58%
Specific Gravity	1.67
Surface Resistivity - .001" film	0.05 ohm / square
Volume Resistivity - .001" film	0.00015 ohm-cm
Specific Gravity	1.67
Adhesion per ASTM D3359-78	5B
Shelf Life at 21°C (70°F)	6 months
Suggested Cure Cycle:	
Initial Cure	162 °C (325 °F)/4-5 minutes (dry to touch)
Press Cure	184 °C (360 °F)/90 minutes @400PSI (28.2 kg/cm ²)
Wave Solder	262 °C (500 °F)/3-4 seconds

** Data based on silk screen application with 235 mesh open screen. Coating applied to pumiced Kapton. Application at 0.8 to 1.2 mils.

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