

# Technical Data Sheet

## CircuitWorks® Epoxy Overcoat

### PRODUCT DESCRIPTION

CircuitWorks® Epoxy Overcoat is a two component, 100% solids, high temperature resistant, permanent epoxy coating for electronics circuit and component protection. When properly cured, CircuitWorks® Epoxy Overcoat yields a chemically inert film which prevents the effects of corrosion, moisture, oxidation, abrasion, and thermal shock. The cured film can withstand brief exposure to high temperatures up to 600°F.

- Provides a hard, durable, protective coating
- Protects against moisture and abrasion
- Outstanding high temperature resistance
- Excellent dielectric properties; helps prevent electrical discharge
- Ideal for pre-reflow solder resist repair
- Meets the requirements of IPC-7721, 2.4.1

### TYPICAL APPLICATIONS

CircuitWorks® Epoxy Overcoat may be used for electronics applications in:

- Circuit Board Manufacturing
- Data Communications
- Aerospace
- Instrumentation
- Controls
- General Maintenance and Repair

### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

#### Composition

Material	Two Part Epoxy coating
Color	Epoxy - Transparent Green Hardener - Amber

Solids	100%
Viscosity	11,000 cps

(Brookfield RVT, spindle #7, 20 rpm, 25°C)

#### Cured Compound

Service Temperature	-55 to 192°F
Short Term Exposure	≤ 600°F (1 minute)

Tack Free	30 minutes
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Pot Life	15-20 minutes 10-15 minutes @ 100°C
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Cure Schedule	24 hours @ 25°C
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Dielectric Breakdown	>400 volts/mil DC
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Insulation Resistance	>1 x 10 <sup>4</sup>
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Shelf life	12 months @ 25 °C
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#### RoHS Compliant



### CHEMICAL RESISTANCE

CircuitWorks® Epoxy Overcoat has excellent resistance to water based cleaners and most organic solvents.

### COMPATIBILITY

CircuitWorks® Epoxy Overcoat is generally compatible with materials used in printed circuit board fabrication. As with any production material, compatibility with substrate should be determined on a non-critical area prior to use.

