

CHEMTRONICS®

Technical Data Sheet

TDS # CW3300

CircuitWorks® Overcoat Pen

PRODUCT DESCRIPTION

CircuitWorks® Overcoat Pen is ideal for protecting and insulating circuit board traces, components, and other delicate electronics. This highly effective acrylic conformal coating provides excellent protection against shorts, moisture, abrasion, fungus, and other environmental hazards. Allows for easy repair of solder mask in prototype, manufacture and repair of circuit boards.

- Simple to use, single component system
- Hard, durable coating
- High dielectric strength
- Helps prevent arcing and shorts
- Contains fluorescent indicator
- Protects against moisture damage
- Meets requirements of Mil-I-46058C and IPC-A-610C
- Helps prevent static discharge problems on sensitive components

TYPICAL APPLICATIONS

CircuitWorks® Overcoat Pen 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	Polymeric Conformal Coat
Color	Clear, Green
VOC Content	630 g/L

Cured Compound

Temperature Range	-67 to 255°F (-55 to 125°C)
Tack-Free Time	< 5 Minutes
Resistivity	$>10^{12}$ ohm-cm @ 50 VDC
Dielectric Breakdown	>500 volts/mil DC
Dielectric Constant	3 - 4
Dissipation Factor	< .001 @ 1 KHz
Thermal Shock Resistance	Pass, 10 Cycles @ -55 to 155°C
Flexibility	Excellent
Moisture Resistance	Excellent
Adhesion	Good to Excellent
Typical Thickness	2 - 3 mil

Shelflife

2 years

RoHS/WEEE

Status



CHEMICAL RESISTANCE

CircuitWorks® Overcoat Pen has excellent resistance to water based cleaners and limited resistance to aggressive organic solvents such as acetone. The chemical resistance of CW3300 can be enhanced by heat curing.

