



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 |

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|-----------|------------|
| 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) |

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|-----------|------------|
| 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 ⁴ |
|-----------------------|----------------------|

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|------------|-------------------|
| Shelf life | 12 months @ 25 °C |
|------------|-------------------|

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.

USAGE INSTRUCTIONS

Read MSDS carefully prior to use.

Surface Preparation: For best adhesion, clean the area with Electro-Wash[®] PX precision cleaner to remove any surface contamination.

Application: Use brushing, rolling, or doctor blade. Pot life is 15-20 minutes at room temperature.

Curing: Tack free time is 30 minutes at room temperature. Excellent results have been obtained by curing for 10 minutes @ 100°C. Optimum cure cycles using radiant or convection conveyer ovens are best determined experimentally. Product may also be cured for 24 hours @ 77 °F (25°C).

Clean-Up/Removal (uncured): Use isopropanol, acetate, or MEK to clean-up uncured resin. Cured Epoxy Overcoat cannot be removed using solvents.

AVAILABILITY

CW2500 7.4 g (0.26 oz) total
- 4g (0.14 oz) Adhesive
- 3.4g (0.12 oz) Hardener

TECHNICAL & APPLICATION ASSISTANCE

Chemtronics provides a technical hotline to answer your technical and application related questions. The toll free number is: **1-800-TECH-401.**

ENVIRONMENTAL IMPACT DATA

| | | | |
|------|------|-----|------|
| ODP | None | VOC | None |
| HCFC | None | HFC | None |

Ozone depletion potential (ODP) is determined in accordance with the Montreal Protocol and U.S. Clean Air Act of 1990. Hydrochlorofluorocarbons (HCFCs) are regulated under the Montreal Protocol as Class II ozone depleting substances. Volatile Organic Compound (VOC) information is calculated on a weight basis using the VOC definition of California Air Resources Board (CARB) Consumer Product Regulations, South Coast Air Quality Management District (SCAQMD) Rule 102 and the Federal definition published in 40 CFR 51.100(s). Hydrofluorocarbons (HFCs) are not currently regulated.

NOTE:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

CHEMTRONICS

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