



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# CHEMTRONICS

## Technical Data Sheet

**TDS # CW2400**

### CircuitWorks<sup>®</sup> Conductive Epoxy

#### PRODUCT DESCRIPTION

CircuitWorks<sup>®</sup> Conductive Epoxy is a two part, silver epoxy used in prototype, repair and general conductive bonding applications. CW2400 features strong mechanical bonds, excellent electrical conductivity, and quick room temperature curing. CircuitWorks<sup>®</sup> Conductive Epoxy bonds aggressively to a wide variety of materials.

- Two-component product
- Simple mixing ratios
- Excellent electrical conductivity
- Fast curing
- High strength bond
- Bonds dissimilar surfaces
- Operating temperature range from
- -91°C (-131°F) to 100°C (212°F)

#### TYPICAL APPLICATIONS

CircuitWorks<sup>®</sup> Conductive Epoxy may be used for electronics applications including:

- Conductive Bonds Between Heat Sensitive Components
- Solderless Surface Mount Connections
- Circuit Board Trace Repair
- Static Discharge and Grounding
- Solder Repair
- Conductive Structural Adhesions

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

##### Composition

Material	Part A Part B	Epoxy Hardener
Specific Gravity (Parts A & B Mixed)		4.0

##### Cured Compound

Volume Resistivity	<0.001 ohm-cm
Thermal Conductivity	
Cal-cm/sec-cm <sup>2</sup> -°C	3.8 x 10 <sup>-3</sup>
BTU-in/hr-ft <sup>2</sup> -°F	11.0
W/m <sup>2</sup> K	1.6
Operating Temperature Range	-131 to 212°F (-91 to 100°C)
Lap Shear (ASTM D-1002)	>1200 lbs/in <sup>2</sup>
Shore Hardness	>70
Dropping Point (ASTM D-2266)	None @ 650°F (343°C)
Adhesion	Excellent
Cured Flexibility	Excellent
Chemical Resistance	Excellent
Moisture Resistance	Good
Typical Thickness	5 mil
<b>Shelf life</b>	9 months
Conditions: Store at temperatures below 77° F	

## COMPATIBILITY

CircuitWorks<sup>®</sup> Conductive Epoxy is generally compatible with most materials used in printed circuit board fabrication. As with any adhesive/sealant, compatibility with substrate should be determined on a non-critical area prior to use.

## USAGE INSTRUCTIONS

**Read MSDS carefully prior to use.**

**Cleaning:** For best results, clean the board with one of Chemtronics<sup>®</sup> Electro-Wash<sup>®</sup> or Pow-R-Wash<sup>®</sup> cleaners in order to remove any surface contamination which may prevent adequate material contact.

**Mixing:** Mix equal amounts (1:1) by weight or volume of Part A and Part B. Mix thoroughly for 2 minutes and apply within 8 minutes.

**Thinning:** Do not attempt to thin.

**Curing:** Curing times and electrical conductivity depend primarily on temperature. For fastest curing times, maximum conductivity and adhesion, cure the bond between 150-250°F (65-121°C) for 5-10 minutes. CircuitWorks<sup>®</sup> Conductive Epoxy can be room temperature cured at or above 75°F (25°C), for 4 hours. Maximum conductivity and bond strength are achieved in 24 hours. *Curing at temperatures below 75°F (25°C) will result in a loss of conductivity and adhesion.*

**Pot Life:** 8-10 Minutes at 75°F (25°C) after mixing.

## AVAILABILITY

CW2400 7g/ 0.25 oz. Adhesive &  
7g/ 0.25 oz. Hardener

CW2400J 10g/ 0.35 oz. Adhesive &  
10g/ 0.35 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.**

## 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  
8125 COBB CENTER DRIVE  
KENNESAW, GA 30152  
1-770-424-4888

REV. K (08/13)

## DISTRIBUTED BY:

--