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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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CHEMTRONICS

Technical Data Sheet

TDS CW2460

60 Minute Conductive Epoxy

PRODUCT DESCRIPTION

The 60 Minute Conductive Epoxy is a two part, silver epoxy used in prototype, repair and general solder-less conductive bonding applications. It features strong mechanical bonds, excellent electrical conductivity, and extended pot life for increased work time. Components can be easily placed and replaced before full cure occurs. For accelerated cure, simply heat material to 212°F (100°C). This conductive epoxy bonds aggressively to a wide variety of materials.

- Two-component product with simple mixing ratios
- 60 minute work time offers increased workability and extended pot life
- Excellent electrical and thermal conductivity
- High strength bond adheres dissimilar surfaces
- Operating temperature range from -67°F (-55°C) to 300°F (150°C)

TYPICAL APPLICATIONS

60 Minute 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	Adhesive Hardener
Color	Part A Part B	Bright Silver Gray Silver
Silver content		>75%
Cured Compound		
Volume Resistivity		<0.001 ohm-cm
Thermal Conductivity		
Cal-cm/sec-cm ² -°C		3.8 x 10 ⁻³
BTU-in/hr-ft ² -°F		11.0
W/m ² K		1.6
Operating Temperature Range		-67°F to 300°F (-55°C to 150°C)
Tensile Lap Shear (ASTM D-1002)		>70-140 Kgm-cm ² (>1000 to 2000 lbs/in ²)
Shore D Hardness		>70
Adhesion		Excellent
Cured Flexibility		Excellent
Chemical Resistance		Excellent
Moisture Resistance		Good
Typical Thickness		5 mil
Shelflife		12 months - Store at temperatures below 120° F
RoHS Compliant		

COMPATIBILITY

60 Minute 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 prior to application with a Chemtronics® ControlWipe™ and Chemtronics Electro-Wash® PX 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 2-3 minutes and apply within 1-2 hours.

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 at 175°F to 212°F (80 to 100°C) for 10-15 minutes. It can be room temperature cured at or above 77°F (25°C) for 24 hours. Maximum conductivity and bond strength are achieved in 36 hours. **Curing at temperatures below 77°F (25°C) will result in a loss of conductivity and adhesion.**

Pot Life: 1-2 hours at 20-25°C after mixing (3-5 gram mass).

AVAILABILITY

CW2460

Part A 10 g. adhesive per mixing jar
Part B 10 g. hardener per mixing jar

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.

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.

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