

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	

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.

Read MSDS carefully prior to use.

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.

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.**

AVAILABILITY

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

ODP	None	VOC	None
HCFC	None	HFC	None

TECHNICAL & APPLICATION ASSISTANCE

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