

# CHEMTRONICS<sup>®</sup>

## 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	Epoxy
	Part B	Hardener
Color	Part A	Bright Silver
	Part B	Gray Silver
Specific Gravity (Parts A & B Mixed)		2.85

##### Cured Compound

Volume Resistivity	<0.001 ohm-cm
Thermal Conductivity	11 BTU-in/ft <sup>2</sup> -hr-°F
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>Shelflife</b>	12 months
Store at temperatures below 120° F	

