

# Conductive Epoxy

## SILVER-FILLED EPOXY SYSTEMS

U.S. Customary  
[SI Metric]

### GENERAL DESCRIPTION

**72-00008 - EPOXY ADHESIVE, CONDUCTIVE TWOCOMPONENT** - This commercial grade, conductive epoxy is designed for use in bonding applications where good conductivity is required. When mixed in a ratio of 1:1.4 by volume or weight, the two components produce a light colored creamy paste which can be easily applied.

**72-08116 - EPOXY SOLDER, CONDUCTIVE, HIGH SILVER CONTENT, TWO-COMPONENT** - This is a silver filled epoxy system designed for maximum performance and lowest volume resistivity. It is easily mixed 1:1 by volume or weight, from the two one-ounce jars. Its consistency is that of a thick paste, making it easy to dispense and apply.

### PREPARATION AND CLEANING

To ensure the best electrical and mechanical reliability, it is highly recommended that the surfaces to be bonded are thoroughly cleaned of grease, oils, dirt and oxide coatings. Preparation should be in accordance with standard practice for preparing surfaces for adhesive bonding.

### APPLICATION OF EPOXY SYSTEMS

**72-00008** - Epoxy Adhesive, Conductive, Two-Component.

Stir parts 1 and 2 thoroughly, then mix together one unit of part 1 and 1.4 units of part 2. They may be mixed either by volume or weight. Apply with dispensing equipment, syringe or spatula. May be cured at room temperature or elevated temperature. See Table for cure time and temperature.

**72-08116** - Epoxy Solder, Conductive, High Silver Content, Two Component.

Stir Part 1 and Part 2 thoroughly, then mix together one unit of Part 1 and one unit of Part 2. They may be mixed either by volume or weight. Since each jar is half filled, there is sufficient room to mix Part 1 and Part 2 together in either jar. May be cured at room temperature or elevated temperature. For solvent cleaning of surface or material cleaning use Xylene.



### CAUTIONS

The conductive systems are safe, non-volatile and non-toxic; however, the following precautions must be observed:

Avoid direct skin contact, as the systems may cause irritation to some individuals. If this should occur, wash with mild soap and rinse with clean water. Contact physician should irritation occur ... Avoid inhalation of vapors by working in ventilated area ... Prevent contact with the eyes ... Do not use near open flame ... This material is for industrial use only.

### ORDERING INFORMATION

When ordering CONDUCTIVE EPOXY, specify number of kits and TECKNIT Part Number. For assistance, contact your nearest TECKNIT area representative or factory location.



## SPECIFICATIONS

## MATERIAL DESCRIPTION

• Number of Components:	Two	Two
• Resin:	Epoxy	Epoxy
• Filler:	Ag/Glass	Ag

## AS SUPPLIED

• Color:	Silver gray	Bright silver
• Consistency:	Thick paste	Thick paste
• Final Condition:	Rigid	Rigid
• Mix Ratio:	1:1.4	1:1
• Volume:	14.7 in. <sup>3</sup>	1.5 in. <sup>3</sup>
• Weight:	16 oz.	2 oz.
• Pot Life @ 25°C:	45 minutes	45 minutes
• Shelf Life, unopened container:	15 months	15 months
• Recommended Cure:	30 minutes @ 212°F [100°C]	30 minutes @ 212°F [100°C]

## CURED\*

• Volume Resistivity, QAP-1017 max.:	0.02 ohm-cm	.001 ohm-cm
• Shear Strength, min. (ASTM D-1002):	1000 psi	1400 psi
• Shrinkage, max.:	1%	1%
• Temperature Range:	-80° to 300°F [-62°C to 149°C]	-80° to 300°F [-62°C to 149°C]

## PART NUMBER

	<b>72-00008</b>	<b>72-08116</b>
• Transportation Class:	Part I-Nonflammable Part II-Nonflammable	Combustable Combustable

\*30 mins. @ 212°F [100°C] followed by 24 hrs @ RT

