



40-3901 ELECTRICALLY CONDUCTIVE EPOXY ADHESIVE

DESCRIPTION:

40-3901 is a two-component epoxy adhesive filled with pure silver in both the resin and hardener. This electrically conductive epoxy resin formulation offers an easy one-to-one mix ratio that cures at room temperature.

40-3901 is designed for adhesive bonding in microelectronic and optoelectronic applications. Due to its excellent continuity of conductivity, it has also been used extensively in applications such as micro-wave EMI and RFI shielding, in the assembly or repair of printed circuit boards, wave guides, electronic modules, flat cable, high frequency shields, connectors, circuitry, and as a cold solder.

40-3901 **passes NASA's outgassing requirements** per ASTM E595.

FEATURES:

- Electrically conductive
- Thermally conductive
- Room temperature cure
- Easy 1:1 mix ratio
- Good bond strength

TYPICAL SPECIFICATIONS:

Mixed Viscosity, cps, 25 °C	Creamy Paste
Color	Silver
Hardness, Shore D	70
Mix Ratio, by Weight	1:1
Operating Temp. Range, °C	-35 to +135
Pot Life, 100 gram mass, 25 °C	1 Hour
Specific Gravity, 25°C	
40-3901RSI Resin	3.1
40-3901CSI Hardener	1.8
Tensile Lap Shear, psi, Al to Al	700
Flexural Strength, psi	10,200
Volume Resistivity, ohm-cm	6×10^{-3}
Thermal Conductivity, W/m·K	7.93



Outgassing	
% TML	0.49
% CVCM	0.02

INSTRUCTIONS FOR USE:

1. By weight, thoroughly mix 1 part 40-3901RSI to 1 part 40-3901CSI.
2. Cure according to one of the following recommended cure schedules:
 - a) 25 °C 24 hours
 - b) 65 °C 1 hour
 - c) 90 °C 15 minutes

STORAGE, HANDLING, & SAFETY:

40-3901 resin and hardener should be stored at 25 °C in original tightly sealed containers. Expected shelf life is twelve months in original unopened containers.

Filler settling is common with these products. Gently stir resin and hardener before using to make sure fillers are evenly dispersed.

Please read the Safety Data Sheet before using this or any other chemical.

AVAILABILITY:

This product is available in 2 oz, 4 oz, and 8 oz jars.

IMPORTANT:

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