



# 40-3905

## ELECTRICALLY CONDUCTIVE EPOXY ADHESIVE AND COATING

### DESCRIPTION:

40-3905 is an electrically conductive system designed for applications requiring low temperature cures. 40-3905 will cure at room temperature in 18 hours or can be accelerated with mild heat.

This is a solvent free epoxy system filled with pure silver. It has outstanding adhesion to aluminum, copper, magnesium, steel, bronze, nickel, kovar, ceramic, glass, phenolic, and printed circuit boards. 40-3905 can also be thinned with up to 10% Toluol for many coating applications.

40-3905 is available in two part kits and premixed and frozen.

### TYPICAL SPECIFICATIONS:

Mix ratio, by weight (Resin:Catalyst)	100:5
Pot life, 100 gram mass @ 25°C	60 Minutes
Linear shrinkage, in/in	.003
Hardness, shore D	85
Specific gravity, 25°C	2.80
Tensile strength, psi	9,500
Compressive strength, psi	14,000
Thermal conductivity, btu in/f <sup>2</sup> /°F	105
Thermal expansion coefficient, per °C	26x10 <sup>-6</sup>
Heat distortion, °C	95
Operating temperature range, °C	-50 to +165
Volume resistivity, ohm-cm	1.0x10 <sup>-4</sup>

### INSTRUCTIONS FOR USE:

- 1) All surfaces to be bonded or coated should be completely cleaned and grease free.
- 2) By weight thoroughly mix 5 parts 40-3905 Catalyst to 100 parts 40-3905 Resin.
- 3) For coating applications thin with Toluol.
- 4) Cure according to one of the following cure Schedules:

A) 25°C	18 Hours
B) 65°C	2-3 Hours

### IMPORTANT:

The information in this brochure is based on data obtained by our research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

06/03