

40-3907

ELECTRICALLY CONDUCTIVE EPOXY ADHESIVE

DESCRIPTION:

40-3907 is an electrically conductive epoxy system designed for applications requiring low temperature cures. 40-3907 will cure at room temperature in 18-24 hours or can be accelerated with mild heat.

This is a solvent free epoxy system filled with silver. 40-3907 epoxy resin has a low hydrolysable chloride content making it ideal for electronic applications. This epoxy also exhibits outstanding chemical resistance.

FEATURES:

- Electrically conductive
- Thermally conductive
- Room temperature cure
- Good bond strength
- Excellent chemical resistance

TYPICAL SPECIFICATIONS:

Viscosity, 25°C, cps	
Mixed	Thixotropic Paste
Mix ratio, (Resin:Hardener)	
By Weight	100:5
Color	Silver
Hardness, Shore D	80-85
Operating Temperature Range, °C	-60 to +135
Pot life, 100 grams, 25°C	45 Minutes
Specific gravity, 25°C	
Resin	3.1
Hardener	1.0
Linear shrinkage, in/in	.003
Hydrolysable Chloride, max% (epoxy)	0.10
Tensile lap shear, psi (Al to Al)	1,200
Flexural strength, psi	10,900
Thermal conductivity, W/m-K	8.65
Coefficient of Thermal Expansion, 1/°C	26×10^{-6}
Volume resistivity, ohm-cm	7×10^{-4}

**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 40-3907 Catalyst to 100 parts 40-3907 Resin (pre-weighed kits eliminate the need to weigh components).
3. Cure according to one of the following cure Schedules:

a) 25°C	18-24 Hours
b) 65°C	2-3 Hours

STORAGE AND HANDLING:

40-3907 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:

40-3907 is available in 3-dram vials and 2 oz containers.

IMPORTANT:

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