



# 40-3916 NICKEL FILLED EPOXY RESIN

## DESCRIPTION:

40-3916 is a two component, nickel filled, electrically conductive, epoxy adhesive. This system was developed to provide a good balance of low cost and high conductivity. 40-3916 is recommended for use where exposure to salt water cause silver based systems to corrode. It will cure at room temperature overnight or may be accelerated with heat.

## FEATURES:

- \*Low cost electrically conductive adhesive
- \*Good adhesion
- \*Room temperature cure
- \*Will not corrode

## TYPICAL SPECIFICATIONS:

Color	Dark Gray
Mix Ratio, by weight (Resin:Catalyst)	100:5
Viscosity	Thixotropic Paste
Specific gravity, 25°C	3.20
Tensile lap shear, psi	900
Operating temperature, °C	-55 to +135
Coefficient of thermal expansion, per °C	10 <sup>-6</sup>
Thermal conductivity	
W/m.K	1.44
Btu-in/hr-ft <sup>2</sup> ·°F	10
Volume resistivity, K ohm-cm	2.1x10 <sup>-2</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 40-3916 Catalyst to 100 parts 40-3916 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

## STORAGE AND HANDLING:

The shelf life for 40-3916 parts A and B are six months at 25°C. For best results, store in original, tightly covered containers. Storage in cool, clean and dry areas is recommended. Usable shelf life may vary depending on method of application and storage conditions.

Thoroughly review the MSDS before using this product.



**IMPORTANT:**

The information in this brochure is based on data obtained by our own 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.

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