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**Product  
Bulletin**

**800-1116**

**E-SHIELD EC-1116**  
**NICKEL FILLED EPOXY RESIN**

**GENERAL DESCRIPTION**

**E-SHIELD EC-1116** 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.

**E-SHIELD EC-1116** 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
- \*Room temperature cure
- \*Good adhesion
- \*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:	$10^{-6}$
Thermal conductivity	
W/m.K:	1.44
Btu-in/hr-ft <sup>2</sup> /°F	10
Volume resistivity, K ohm-cm	$2.1 \times 10^{-}$

**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:

Options:	1) 25°C (77°F)	18 Hours
	2) 65°C (149°F)	2-3 Hours

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