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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^2/°F	10
Volume resistivity, K ohm-cm	2.1x10$^-$

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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