



Solar Compounds Corporation  
1201 West Blancke Street  
Linden, NJ 07036 USA  
Ph: 908-862-2813 Fax: 908-862-8061  
Intnl: Ph: (0101) 908-862-2813 Fax: (0101) 908-862-8061  
www.solarcompounds.com

# TECHNICAL DATA SHEET

## SOLARITE EP-240FR

**DESCRIPTION:** Solarite EP-240FR is a flexible heat curing epoxy potting and casting compound, whose convenient mixing ratio makes it easy to use. EP-240FR is flame retardent and produces high gloss and void free castings when potting electrical components. Designed to withstand service temperatures upto 155C often seen in transformers and coils during operation.

### SPECIFICATIONS—UNCURED:

	<b>Part A</b>	<b>Part B</b>
Color, Visual	Black	Neutral
Mix Ratio—By Weight	1	1.5
Specific Gravity	1.5	1.6
Viscosity, cps, ASTM-D-2393	7000	30000
Mixed Viscosity, cps, ASTM-D-1084		16500
Gel Time, 100°C, Hours		2
Shelf Life, 25°C, Months		12

### SPECIFICATIONS—CURED:

#### PHYSICAL:

Durometer, ASTM-D-2240	50D
Tensile Strength, psi, ASTM-D-638	6,600
Tensile Elongation, Percentage, ASTM-D-638	35.0
Thermal Conductivity, BTU-in/ft <sup>2</sup> (Hour) (°F)	4.0
Flammability, UL 94V0	Passes
Service Temperature, °C	155

#### ELECTRICAL PROPERTIES:

Dielectric Strength, Volts/Mil, ASTM-D-149	425
Dielectric Constant, 1 kHz, ASTM-D-150	3.9
Dissipation Factor, 1 kHz, ASTM-D-150	0.01
Volume Resistivity, ohm/cm, ASTM-D-257	1x10 <sup>15</sup>

**USE INSTRUCTIONS:**

1. Pre-mix contents of containers before use to ensure the entire contents are uniform. Some settling may occur upon prolonged storage the is soft and easily incorporated. Measure out contents according to the specified mix ratio and mix together.
2. Heat product to 100-175F to lower viscosity and aid pouring.
3. De- air if necessary at 760 mm of Hg for 5-10 minutes.
4. Pour into cavity to be encapsulated. Cavity may also be pre-heated to aid penetration and de-gassing

**CURE SCHEDULE:** Dipping and lowest shrinkage :6-8 [hours@200F](#) then3-5 [hours@220F](#) then 2-3 [hours@250F](#) and final post cure 1-2 hours@ 300F.Casting and Potting operations 7-9 [hours@200F](#) (lowest shrinkage)and final cure 1-2 hours@300F.

**STORAGE REQUIREMENTS:**

This product has a tendency to settle upon storage and shipment, material should be mixed well prior to use. Store in a cool dry place.

**IMPORTANT:**

The following supersedes any provision in your company's forms, letters, and papers. **SOLAR COMPOUNDS CORPORATION** makes NO WARRANTY, WHETHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES of MERCHANTABILITY OR of FITNESS FOR A PARTICULAR PURPOSE FOR THIS PRODUCT. No statements or recommendations contained in the product literature are to be construed as inducements to infringe any relevant patent, now or thereafter in existence. UNDER NO CIRCUMSTANCES SHALL **SOLAR COMPOUNDS CORPORATION** BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES FROM ALLEGED NEGLIGENCE, BREACH of WARRANTY, STRICT LIABILITY OR ANY OTHER THEORY, ARISING OUT of THE USE OR HANDLING of THIS PRODUCT. The sole liability of **SOLAR COMPOUNDS CORPORATION** for any claims arising out of the manufacture, use or sale of its products shall be to refund the buyer's purchase price, provided such products have been demonstrated in **SOLAR COMPOUNDS CORPORATION'S** sole opinion, to justify such refund.

**HEALTH CAUTION:**

Avoid breathing possible fumes, mists and vapors, which can cause severe respiratory damage. Use of NIOSH approved breathing apparatus is required for more than minimal exposure. Always work in areas with adequate ventilation to allow dissipation of polyamine and other chemical fumes, and where applicable, solvent fumes. Use of goggles, protective garments, rubber gloves, protective cream is required. If material gets into eyes, flush thoroughly with clear water for twenty (20) minutes; then seek medical treatment. Avoid skin contact. Material can cause contact dermatitis. Always wash exposed areas immediately, using warm water and soap, followed by rinsing with clean water. Observe all safety precautions. It is important when using solvent based materials or solvents to keep away from open flame or ignition source.

**PLEASE REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER FIRST AID INFORMATION.**

FOR CHEMICAL EMERGENCY  
CALL CHEMTREC (DAY OR NIGHT) 800-424-9300.