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# TECHNICAL DATA SHEET

## SOLARITE EP-2000

**DESCRIPTION:** Solarite EP-2000 is a low viscosity room temperature curing epoxy potting and casting compound, whose convenient mixing ratio makes it easy to use and well suited to automatic dispensing equipment. EP-2000 is well suited to potting small and large electrical units with densely populated components to produce void free castings. Additionally an optical tracer is incorporated into the material for easy identification under black light.

### SPECIFICATIONS—UNCURED:

	<b>Part A</b>	<b>Part B</b>
Color, Visual	White	Black
Mix Ratio—By Weight	8	1
Mix Ratio—By Volume	6	1
Viscosity, cps, ASTM-D-2393	600-1000	500-800
Specific Gravity	1.37+/-0.02	1.03+/-0.02
Gel Time, 25°C, Hours	1.20-1.80	
Cure schedule, 85°C, Minutes	15-30	
Cure schedule, 25°C, Hours	16	
Mixed Viscosity, cps, ASTM-D-1084	600-1000	
Shelf Life, 25°C, Months	12	

### SPECIFICATIONS—CURED:

#### PHYSICAL:

Durometer, ASTM-D-2240	85+/-3 D
Tensile Strength, psi, ASTM-D-638	7,690
Tensile Elongation, Percentage, ASTM-D-638	1.50+/-0.5

#### ELECTRICAL PROPERTIES:

Dielectric Strength, Volts/Mil, ASTM-D-149	422
Dielectric Constant, 1 kHz, ASTM-D-150	4.12
Dissipation Factor, 1 kHz, ASTM-D-150	0.02
Volume Resistivity, ohm/cm, ASTM-D-257	1.82x10 <sup>15</sup>

### **USE INSTRUCTIONS:**

1. Pre-mix contents of each container before use to ensure the entire contents are uniform. Some settling may occur upon prolonged storage which is soft and easily incorporated.
2. Measure out components of the product by weight or volume and mix thoroughly together to incorporate any settled material.
3. De-air if necessary at 760 mm of Hg for 5-10 minutes.
4. Pour into cavity to be encapsulated.

### **CURE SCHEDULE:**

Initial cure is achieved in 16-24 hours at room temperature. Final cure takes at least 7-10 days at 72F. To accelerate the cure higher temperatures can be used, 15-30 minutes at 185 F is usually sufficient.

### **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:**

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### **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.