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# TECHNICAL DATA SHEET

## SOLARITE EP-232UF

**DESCRIPTION:** Solarite EP-232UF is a semi-rigid heat curing 1 to 1 by weight epoxy potting and casting compound, whose convenient mixing ratio makes it easy to use. EP-232UF is unfilled and very low viscosity enabling it to penetrate densely populated components producing high gloss and void free castings. Designed to withstand service temperatures upto 155C often seen in transformers and coils during operation.

### SPECIFICATIONS—UNCURED:

|                                   | Part A | Part B |
|-----------------------------------|--------|--------|
| Color, Visual                     | Clear  | Clear  |
| Mix Ratio—By Weight               | 1      | 1      |
| Viscosity, cps, ASTM-D-2393       | 1100   | 200    |
| Specific Gravity                  | 1.10   | 0.98   |
| Gel Time, 25°C, Hours             |        | 24     |
| Gel Time, 100°C, Hours            |        | 2-3    |
| Mixed Viscosity, cps, ASTM-D-1084 | 400    |        |
| Shelf Life, 25°C, Months          | 12     |        |

### SPECIFICATIONS—CURED:

#### PHYSICAL:

|  |        |
|--|--------|
| Durometer, ASTM-D-2240                                   | 85-90D |
| Compressive Strength, psi, ASTM-D-695                    | 13,005 |
| Tensile Strength, psi, ASTM-D-638                        | 9,500  |
| Tensile Elongation, Percentage, ASTM-D-638               | 4.0    |
| Thermal Conductivity, BTU-in/ft <sup>2</sup> (Hour) (°F) | 1.6    |
| Service Temperature, °C                                  | 155    |

#### ELECTRICAL PROPERTIES:

|  |                    |
|--|--------------------|
| Dielectric Strength, Volts/Mil, ASTM-D-149 | 435                |
| Dielectric Constant, 1 kHz, ASTM-D-150     | 4.6                |
| Dissipation Factor, 1 kHz, ASTM-D-150      | 0.02               |
| Volume Resistivity, ohm/cm, ASTM-D-257     | 4x10 <sup>14</sup> |

### **USE INSTRUCTIONS:**

1. Pre-mix contents of containers before use to ensure the entire contents are uniform. Measure out contents according to the specified mix ratio and mix together.
2. Heat product to 100-175F to lower viscosity and aid pouring if necessary
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:** Lowest Shrinkage: 7-9 [hours@190F](#) then 1-2 [hours@250F](#). Highest Temperature performance 2 [hours@250F](#) then 2 hours@300F

### **STORAGE REQUIREMENTS:**

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 om 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.