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TECHNICAL DATA SHEET

SOLARITE EP-0585

DESCRIPTION: Solarite EP-0585 is a 80°C operating class flexible thermal shock resistant room temperature curing hybrid polymer epoxy potting and casting compound, whose convenient mixing ratio makes it easy to use and well suited to automatic dispensing equipment. EP-0585 is a performance alternative to polurethanes which gives excellent adhesion to glass, plastics and wiring associated with electronic potting and produces void free castings when potting electrical components.

SPECIFICATIONS—UNCURED:

	Part A	Part B
Color, Visual	White	Blue
Mix Ratio—By Weight	100	15
Viscosity, cps, ASTM-D-2393	36,000	280
Specific Gravity	1.50	0.97
Gel Time, 25°C, Hours		0.75-1.20
Mixed Viscosity, cps, ASTM-D-1084		18,000
Shelf Life, 25°C, Months		12

SPECIFICATIONS—CURED:

PHYSICAL:

Durometer, ASTM-D-2240	80-85A
Tensile Strength, psi, ASTM-D-638	800
Tensile Elongation, Percentage, ASTM-D-638	150.0
Thermal Conductivity, BTU-in/ft ² (Hour) (°F)	3.4
Service Temperature, °C	80

ELECTRICAL PROPERTIES:

Dielectric Strength, Volts/Mil, ASTM-D-149	433
Dielectric Constant, 1 kHz, ASTM-D-150	4.18
Dissipation Factor, 1 kHz, ASTM-D-150	0.019
Volume Resistivity, ohm/cm, ASTM-D-257	1.3x10 ¹⁵

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, 2-4 hours at 150 F is usually sufficient, after allowing the product to gel at room temperature for 3 hours.

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.