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TECHNICAL DATA SHEET

SOLARITE EP-111FR

DESCRIPTION: Solarite EP-111FR is a semi-rigid flame resistant one-component heat cure epoxy potting and casting compound, designed specifically for coil impregnation and potting of transformers where service temperatures can reach upto 155C.

SPECIFICATIONS—UNCURED:

Color, Visual	Black
Viscosity, cps, ASTM-D-2393	10000
Specific Gravity	1.60
Gel Time, 100°C, Hours	2-3
Shelf Life, 5°C, Months	6

SPECIFICATIONS—CURED:

PHYSICAL:

Durometer, ASTM-D-2240	85D
Compressive Strength, psi, ASTM-D-695	13000
Tensile Strength, psi, ASTM-D-638	9,500
Tensile Elongation, Percentage, ASTM-D-638	2.0
Thermal Conductivity, BTU-in/ft ² (Hour) (°F)	4.5
Flammability, UL 94V0	Passes
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	1x10 ¹⁵

USE INSTRUCTIONS:

1. Pre-mix contents of container before use to ensure the entire contents are uniform. Some settling may occur upon prolonged storage the is soft and easily incorporated.
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.

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:

This product has a tendency to settle upon storage and shipment, material should be mixed well prior to use. One component epoxies are pre-catalyzed and have a limited shelf life do not store at elevated temperatures. 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.