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# TECHNICAL DATA SHEET

## SOLARITE KM-4508 THERMOPLASTIC FLOODING COMPOUND

**DESCRIPTION:** SOLARITE KM-4508 is a homogenous, elastomer modified asphaltic flooding compound. Primarily developed for use between layers of composite metal and plastic, the flooding and protection of braided or served metal armor and the sealing of metal strands. It serves as an excellent moisture vapor barrier and corrosion inhibitor.

### **SPECIAL PROPERTIES:**

- 1) Color - Black
- 2) Non-Corrosive to Metals
- 3) Viscosity, Brookfield Thermocel @ 300°F--750 +/- 250 cps
- 4) Penetration, ASTM D-217 @ 77°F Tenths of m.m.--50 +/- 10

### Exceptions to Method

- a) Approximately 15 grams of compound placed between two sheets of non-moisture-proof cellophane .0016" thick.
- b) Compress to .05" thick.
- c) Cool to 0°F and cut in 1/2" x 2" strips.
- d) Strips bent around 3/8" mandrel @ 77°F to form a closed U loop.
- e) Samples exposed to 4 hours @ 0°C.
- f) Samples flattened with suitable pieces of metal cooled along with samples.
- g) Cracking of the flowing compound constitutes a failure.

6) Flow Test--90 Mils Max.

Method of Test: The test cup used is the cap of a standard ointment can of 0.015 inch thick stock with a 1/16 inch diameter hole bored in the center of the bottom. The hole shall be clean and smooth, with no burrs. The compound is melted and stirred before filling the test cup. The sample is then allowed to cool to room temperature and any surplus removed from the bottom of the test cup by wiping with a cloth moistened with mineral spirits or VM & P naphtha. The cup, filled with sample to a depth of at least 1/4 inch, is placed on a support so that the hole is free, over an aluminum foil steel in a circulating air oven. Maintain 60° +/- 1°C for 4 hours and check for flow from the hole at the end of this heating period. A slight hemispherical bulge of up to 90 mils around the top shall not be considered as flow although any flow exceeding such a bulge shall be considered a failure.

7) Specific Gravity--ASTM D-71-27--77/77°F--1.01

8) Heat Stability--**SOLARITE KM-4508** offers excellent stability under normal operating conditions and recommended applying temperatures.

9) Compatibility--There are no ingredients in the composition of **SOLARITE KM-4508** that would be injurious to plastics such as polyethylene and polyvinyl chloride.

10) Temperature of Application--280° - 300°F

11) Softening Point--ASTM-D-36--165°F Max

**METHOD OF APPLICATION:**

a) Pre-Melt--Flooding compound is too soft at normal temperatures to be chopped. **SOLARITE KM-4508 FLOODING COMPOUND** may best be handled by use of a pre-melt operation. Equipment necessary for handling drums involves a heated pre-melt tank of 75 gallons minimum capacity. The pre-melt tank may be elevated with a gravity feed into the applying tank or the compound may be pumped from the pre-melt tank to the applying tank. In either case, the drum of Flooding Compound is inverted and with a hoist lowered into the pre-melt tank. The heat of the tank and the material in it is sufficient to release the mass from the drum. An alternative is to support the inverted drum above the pre-melt tank on a steam or electrically heated grating and with the use of a heating blanket or strip heaters around the drum permits the compound to flow into the pre-melt tank. The Flooding Compound should be maintained in

the pre-melt tank at a temperature in the vicinity of 265°F.

- b) Applying Tank--Application of the Flooding Compound may be accomplished by slushing it over the cable by pumping or pick-up wheel with scraper blade. Depending upon the size and flexibility of the cable, the Flooding Compound may also be applied by cable immersion. Excess compound is removed with a rubber or roper wiper.

**STORAGE:** May be stored indefinitely in a dry location. Temperature variations have no effect.

**TOXICITY:** None of the ingredients used are of a toxic nature.

**PACKAGING:** Double-head or open-head, light-gauge, non-returnable steel drums--5-1/2 gallon can with pry-off lid, 50 lbs. net (approx.).

**MARKINGS:** Compound designation number, batch number, customer's order number, gross, net, and tare weights.

**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 chemical fumes. Use of goggles, protective garments, rubber gloves, protective cream is required.

**PLEASE REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER FIRST**

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

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