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TECHNICAL DATA SHEET

SOLARITE KM-1166 JOINT AND CRACK SEAL

USE: As a crack sealer and joint filler for concrete and asphalt paved roads. One gallon will fill approximately 230 cu. inches.

DESCRIPTION: **SOLARITE KM-1166** is an elastomeric modified asphalt. The asphalt base is a specially selected crude that readily accepts the elastomer to offer the ultimate in physical properties. The high degree of compatibility between the elastomer and the asphalt greatly enhances the asphalt's properties, particularly in respect to cohesive and adhesive strength and resiliency. These properties prevent tracking under high speed heavy loads and stop-start conditions. It has diminished temperature susceptibility, offering resistance to flow at higher climatic temperatures.

TYPICAL PHYSICAL CONSTANTS:

Softening Point (Ball & Ring)

ASTM-D-36-26.....140°F - 150°F

Penetration @ °C, 100 gms, 60 sec.

ASTM-D-5-29 (.1 mm).....20 Minimum

Penetration @ 25°C, 100 gms, 5 sec.

ASTM-D-5-29 (.1 mm).....40 - 55

Specific Gravity ASTM-D-71-27.....1.14 - 1.18

Pounds Per Gallon.....9.6

Inert Fillers--Maximum.....20%

Ductility ASTM-D-113-44

0°C (5 cm/min.) Minimum.....5 cm

5°C (5 cm/min.) Minimum.....5 cm

25°C (5 cm/min.) Minimum.....50 cm

Force Ductility (E.I. DuPont Method)

(5°C/41°F--5 cm/min.)

Force @ 15 cm Elongation

Minimum.....5 Lbs.

Force @ 25 cm Elongation

Minimum.....5 Lbs.

Torsional Recovery (E.I. DuPont Method)

	<u>Unmodified Asphalt</u>	
After 30 Sec. @ 77°F Min.....	14%	3.6%
After 30 Min. @ 77°F Min.....	25%	3.5%

The torsional recovery test was devised to measure the electricity imparted to a bituminous material by an elastomer. The scope of this test is to determine the degree of recovery which an elastomer modified asphalt undergoes after distortion through an arc of 180°.

APPLICATION:

Application Temperature.....275°F - 300°F

Application should be made at recommended temperatures.

Temperatures higher than 400°F, particularly over extended periods, will deteriorate the sealant's properties.

Heat in a double boiler type, indirect fired melter, with proper temperature controls and sufficient agitation. Direct fire heating is not recommended.

Joints should be dry, free of dust and cleaned of any foreign material before applying sealant.

Good fluidity at applying temperatures, with uniform pouring consistency makes it suitable for narrow joints, cracks, and small cavities.

Good stability permits reuse after reheating and/or overheating, without gelling. Reheating will not damage sealant.

RESISTANCE TO WEAR AND OXIDATION: By virtue of its composition, it has been observed to be most resistant to wear and oxidation.

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

PACKAGING: Double head, light gauge, non-returnable steel drums, 55-gallon or 15-gallon capacity, weighing approximately 550 pounds and 140 pounds, respectively. 5-gallon high-release, silicon-lined, varnished ply-fiber container with lid weighing approximately 40 pounds. A 40-pound box containing two 20-pound blocks wrapped in meltable plastic.

MARKINGS: Compound number, designation, batch number, gross weight, and customer's order number.

IMPORTANT:

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HEALTH CAUTION:

Please refer to Material Safety Data Sheet before using these products.

PLEASE REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER FIRST AID INFORMATION.

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CALL CHEMTREC (DAY OR NIGHT) 800-424-9300.