

# Technical Data Sheet

Technical Data Sheet – Template

## SOLARITE® KM-2740 SILICONE SEALANTS

**Description:** Solarite KM-2740 sealants are 2-component room-temperature vulcanizing silicones with a convenient 1 to 1, by volume or weight, mix ratio. Well suited to automatic dispensing equipment used in sophisticated cabling operations. Their lightweight and excellent stripability make them ideal for sealing and blocking wire strands, cable valleys and braided shields used in the construction of power cables. Available in several standard viscosity grades and custom cure schedules.

### Typical Physical Constants – Uncured:

		Part A	Part B
Color, Visual		Blue	Yellow
Mix Ratio—By Weight		1	1
Mix Ratio—By Volume		1	1
Viscosity, cps, ASTM-D-2393			
	KM-2740-2 (Paste)	0.8-2 Million	0.8-2 Million
	KM-2740-4 (Pourable)	35-40,000	35-40,000
	KM-2740-6 (Pourable)	190-235,000	190-235,000
Specific Gravity		0.84	0.84
Gel Time, 25°C, Hours		8-16	
Cure Time, 25°C, Hours		24-48	
Shelf Life, 25°C, Months (Product Specific)		3-6	

### TYPICAL PHYSICAL CONSTANTS—UNCURED:

Durometer, ASTM-D-2240 ..... 50-85A  
Halogen Content ..... None  
Oxygen Index ASTM-D-2863 ..... 54.5%  
Toxicity Index, NES 713/MIL-C-24643 (Maximum-5) ..... 3.8  
Acid Gas Generation/MIL-C-24643 (Maximum-2%) ..... 0.31  
Thermal Conductivity, BTU-in/ft<sup>2</sup> (Hour) (°F)..... 4.3  
Service Temperature, °C..... 200

### ELECTRICAL PROPERTIES:

Dielectric Constant, 1 kHz, ASTM-D-150..... 2.95

**USE INSTRUCTIONS:**

1. Pre-mix contents of each container before use to ensure the entire contents are uniform. Some separation may occur upon prolonged storage, which is soft and easily incorporated. BEACON ADHESIVES COMPANY recommends mixing each component using a half-inch electric drill and Jiffy Mixing Blade for at least 3 to 5 minutes before use.
2. Measure out equal components of the product by weight or volume and mix thoroughly together until a uniform color is observed without streaks.

**CURE SCHEDULE:**

Initial cure is achieved in 24-48 hours at room temperature. Final cure takes at least 7-10 days at 72°F. To accelerate the cure, higher temperatures can be used; 150°F is usually sufficient.

**SPECIAL REQUIREMENTS:**

1. This product has a tendency to separate upon storage and shipment; material should be mixed well prior to use. Store in a cool dry place.
2. Silicones can be poisoned by foreign contaminants like sulphur and amine compounds. Poisoning inhibits the cure of the silicone at the point of contact with the contaminant. Increasing the catalyst used, speeding up the cure time, or removing contaminants from the process can stop poisoning.
3. Supplied in 5-gallon and 55-gallon containers.

**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.

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