

# TECHNICAL DATA SHEET

## THERMOTEK™ SILICONE MASTIC

SINGLE COMPONENT SILICONE  
COATING COMPLEMENT

### DESCRIPTION

THERMOTEK™ SILICONE MASTIC is a single component silicone-based, paste-like consistency mastic with excellent adherence to porous and non-porous substrates. Ready-to-use, this product is designed to be applied into vertical seams on metal roofs, around flashings, drains and protrusions, to repair cracks, seal fasteners and all common details found over the roof.

### PROPERTIES

Physical Property	Test Method (ASTM)	Value
Appearance	INTERNAL	LIQUID
Type	INTERNAL	SILICONE MASTIC
Color	INTERNAL	BEIGE
Viscosity, dm	ASTM D-217-94	290 MIN
Solids by volume, %	ASTM D-1644	96.0 ± 2.0
Solids by weight, %	ASTM D-1644	97.0 ± 2.0
Density, gr/ml	ASTM D-1475	1.28 ± 0.02
Elongation, %	ASTM D-412	50 MIN
Drying time for water resistance	ASTM D-1640	1 TO 4 HOURS*
Total drying time	ASTM D-1640	8 TO 24 HOURS*
Fungus resistance	ASTM G-21	APPROVED
Tensile Strength, lb/in <sup>2</sup>	ASTM D-412	< 100
Accelerated weathering	ASTM G-151 & G-154	NO DETERIOUS EFFECTS AFTER 5,000 HOURS
Low Temperature Flexibility, (-14.8 °F, 9.6 °C)	ASTM D-522	APPROVED
Hardness, Shore A	ASTM D-2240	45

### SURFACE PREPARATION

For coating, the surface must be free of any: oil, grease, dirt, water, ponding conditions and/or debris (pressure washing is recommended). Prior application, the surface must be prepared and verified for compatibility, if there is any loosely adhered coating this must be mechanically removed. If some areas hold excessive ponding water, they must be brought into conformance by installing proper drains. New asphalt shall be exposed to environmental conditions between 90 to 120 days before coating. Rusted areas shall be mechanically abraded to remove rust and then primed with THERMOTEK™ RUST PRIMER (deteriorated metal shall be replaced). Perform a coating adhesion test on different sections of the roof before doing the entire job.

### PACKAGING

5-gal bucket.

### APPLICATION TOOLS

THERMOTEK™ SILICONE MASTIC can be applied by brush, trowel and putty knife.

### APPLICATION METHOD

Prior mastic application, the surface must be clean and dry, and all primers needed should be applied. For installation, apply sufficient quantity of THERMOTEK™ SILICONE MASTIC to completely seal the seam or crack being treated, extending it from 1 to 2 inches on each side of the opening. On vertical roof seams (metal roof decks), it should be applied with a brush or flat trowel, on horizontal surfaces, it should be applied to a thickness of approximately 70 mils at 4 inches wide. For crack repairs in concrete, apply THERMOTEK™ SILICONE MASTIC in multiple coats. **NOTE:** Refer to our application guide for detailed instructions.

### CAUTION:

THERMOTEK™ SILICONE MASTIC should not be applied at temperatures below 40°F (4.5°C) or if rain is expected within 1 to 4 hours after the application. The required cure time could vary depending on humidity and temperatures (low temperatures increase the curing time). **NOTE:** For better energy savings, the roof must be cleaned yearly, refer the MSDS for further information.



SILICONE COMPLEMENT

### USAGE

THERMOTEK™ SILICONE MASTIC forms a durable, weather resistant “rubber-like” seal used to prime and seal: penetrations, skylights, seams, sealing holes, etc.

### ADVANTAGES

- Easy to apply.
- High resistance to heat, cold, chemicals, solvents, rain, snow and pollutants in the air.
- Cures to moisture.

### COVERAGE RATE PER GALLON

Width	Thickness	Length
1"	1/4"	77.00 ft
2"	1/4"	38.50 ft
4"	1/4"	19.25 ft
6"	1/4"	14.62 ft
1"	1/8"	154.00 ft
2"	1/8"	77.00 ft
4"	1/8"	38.50 ft
6"	1/8"	29.24 ft

### STORAGE

The storage temperature should be greater than 41 °F (5 °C) and below 113 °F (45 °C). Shelf life is 1 year.

### APPROVALS AND CERTIFICATIONS



We as THERMOTEK GROUP guarantee that since our products are shipped from the production plant they will be free of manufacturing defects; all the recommendations contained herein follow tests we consider as reliable and are subject to change without prior notice. THERMOTEK GROUP does not assume any responsibility for coverage, performance or injuries resulting from storage, handling or use of our products. Liability, if any, is limited to product replacement, to the terms stated within the executed warranty. TDS V3 - 05.16.

## CONTACT US

1 800 542 2334 | [contact@grupothermotek.com](mailto:contact@grupothermotek.com) | [www.thermotekgroup.com](http://www.thermotekgroup.com)