



Mastics

Presstite Thermal Mastic

Presstite Thermal Mastic is a heat conducting compound that increases heat transfer four times the amount of mechanical mounting alone. The result is faster response times from expansion valves and controls when connecting the sensor bulb to the suction line, better heat transmission between suction and liquid line heat exchangers and faster heat transmission between coils and liners. Thermal Mastic has a working temperature range from -50°F to 220°F (-46°C to 100°C) and is available in 4 convenient sizes for virtually any application. To enhance the performance of these and other temperature sensitive components that rely on surface to surface heat transfer, use Virginia Thermal Mastic.

CHARACTERISTICS:

- Stable between -50°F to 220°F (-46°C to 100°C).
- Increases heat transfer between surfaces 4 times over mechanical mounting alone.
- Replaces solder for heat transmission.
- Available in 4 convenient sizes.

USES:

Any application in which enhanced surface to surface heat transfer would aid in system or component performance such as expansion valve and thermometer sensor bulbs.

APPLICATION METHODS:

Can be applied by squeezing tube or by troweling in bulk quantities.

Protective gloves should be worn.

SUGGESTED APPLICATION INSTRUCTIONS:

1. Clean surfaces to be joined.
2. Fasten parts securely together as recommended by the manufacturer.
3. Apply Presstite thermal mastic to one or both sides of joined parts.

CAUTIONARY NOTES:

This product is for professional use only.

If used improperly this product can:

- Cause irritation to skin.
- Cause respiratory irritation or act as a narcotic or anaesthetic.

Refer to MSD sheet for further information. MSD sheets are available at your local wholesaler or by calling Virginia KMP.



**CHEMICAL AND PHYSICAL CHARACTERISTICS:**

Solid Composition	Approximately 99%
Shrinkage	Nil
Odor	Will not contaminate sweet butter
Shelf Life	Normally two years or more, depending on storage conditions
Coverage	Approximately 390 feet per gallon in a 1/4" diameter bead
Adhesion	Good on most clean, dry surfaces
Water Resistance	Not absorbitive and resistant to vapor transfer
Color	Tan
Approximate Weight per Gallon	14.6 pounds
150 g. Cone P. @ 77°F	
ASTM D217-52T	25.0 - 32.0 mm
Rheometer	
0.104 Orifice, 40 psi @ 77°F	75 - 175 seconds
Viscosity	3,700,000 centipoise when tested with a Brookfield DV1+ viscosimeter using a #7 spindle at 0.5 rpm @ 25°C
K Factor (thermal conductivity)	.0020 Cal./(Sec. cm °c.) (Approx.) or 6.5 BTU/(hr x ft² - °F)
Flash	450°F. minimum
Slump	1/4" bead @ 158°F = no slump
Corrosion	Will not corrode copper, galvanized or unfinished steel.
Effect of High Temperature	Will not flow @ 220°F
Effect of Low Temperature	Will not become brittle @ -50°F
Effect on Plastics	Will craze polystyrene
Effect on Rubber	Will swell rubber
Effect on Laquer	None - non staining
Effect on Enamel	None - non staining
pH	7.0 plus
Clean up	Thermal Mastic can be dissolved or cut with mineral spirits

PACKAGE SIZES AVAILABLE:

Thermal mastic is available in 8 oz tubes or in 1, 5 and 50 gallon containers.

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