



Product Data

Q-40 Thermal Mastic

Issue Date: 11/03/2010

Purpose

Edge Adhesives Thermal Mastic is a heat conducting compound that increases heat transfer four times the amount from expansion valves and controls when connecting the sensor bulb to the suction line, better heat transmission between coils and liners. Thermal Mastic has a working temperature range from -60°F to 212°F (-76°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 Edge Adhesives Thermal Mastic.

Characteristics

- Stable between -60°F to 212°F (-76°C to 100°C).
- Increases heat transfer between surfaces 4 times over mechanical alone.
- Replaces solder for heat transmission.
- Available in 4 convenient sizes.

Uses

Any application in which enhance 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 troweling in bulk quantities. Protective gloves should be worn.

Test Data

Color: White

Odor: Will not contaminate sweet butter

Slump: ¼" Bd @ 158°F = no slump

Solids Composition: Approximately 99%

Water Resistance: Not absorptive and resistant to vapor transfer

Adhesion: Good on most clean dry surfaces

Shelf Life: Normally two years, depending on storage conditions.

Shrinkage: Nil

Coverage: Approximately 390 feet per gallon in a ¼" diameter bead

Weight/Gallon: 14.1lbs. 150g. Cone penetration @ 77°F

ASTM D217-52f: 20mm – 27.5mm

K Factor (thermal conductivity): .0020 cal./(sec. Cm °c).(approx.)
or 6.6 BTU/(hr x ft² - °F)

Viscosity, 77°F, 50 TPM, ARES II Rheometer: 395,000cps

Corrosion: Will not corrode copper, galvanized or unfinished steel

Effect to high temperature: Will not flow @ 220°F

Effect of low temperature: Will not become brittle @ -60°F

Effect on plastics: Will not craze polystyrene

Effect on rubber: Will not swell on rubber

Effect on lacquer: none

Effect on enamel: none

pH: 7.0 nominal pH

Suggested Application Instructions



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1. Clean surfaces to be joined.
2. Fasten parts securely together as recommended by the manufacturer.
3. Apply Edge Adhesives Thermal Mastic to one or both sides of joined parts.

Clean Up/ Precautions

Thermal Mastics can be dissolved or cut with mineral spirits.

This product is for professional use only. If it is used improperly this product can cause irritation to skin through the use of mineral spirits to clean tools. Refer to MSDS Sheet for further information. MSD Sheets are available by calling Edge Adhesives.

Packaging

Thermal Mastic is available in 8oz tubes or in 1.5 and 50 gallon containers.

Freight Classification

Caulking Compound, "NOIBN" (No Red Label Required). Class 55, Item No. 149610

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