

ISBMHT

Description

Momentive Performance Materials ISBM HT 40 is a one component, ready to use flowable adhesive/sealant, which cures to a tough, durable resilient silicone rubber on exposure to atmospheric moisture at room temperature. ISBM HT 40 is suggested for use in applications requiring neutral cure, fast cure and excellent adhesion. Because of the benzamide cure system ISBM HT40 offers an essential odourless cure with no unpleasant smell or pungent cure byproducts. When cured and heated above 80° C the product shows sublimation.

Key Features and Benefits

- Neutral cure, non corrosive
- Non slump paste or flowable
- Excellent primerless adhesion to plastics and metals
- High temperature resistance. Will be flexible from -60° to +200° C
- Continuous operation and to 260° C for short periods
- Fast room temperature curing
- Excellent weatherability remains flexible, will not harden or crack good ozone resistance

Typical Physical Properties

Typical uncured properties:

		ISBM HT 40
Colour		Black
Consistency		Flowable
Skin over time	min	8

Viscosity	Pa.s	55
Density	g/cm ³	1.12
Hardness (Shore A)		30
Tensile Strength	MPa	1.3
Modulus @ 100 %	MPa	0.7
Elongation	%	250

1) properties were obtained on 2 mm thick slabs cured for 7 days at 23° C and 50% RH.

Typical properties are not to be used as or to develop specifications.

Potential Applications

The fast neutral cure characteristics of ISBM HT 40 make this product ideally suited for industrial plastic sealing and bonding applications, electrical insulation, encapsulating, protective or conformal coating and thin section potting of electrical components.

Processing Recommendations

Surface Preparation

ISBM HT 40 adhesive sealant will bond to many clean surfaces. These surfaces typically include many metals, glass, ceramic and many plastics. An evaluation should be made to determine bond strength for each application. For difficult to bond substrates use of a primer is suggested. Momentive performance materials primers such as SS 4004P, SS 4044P, SS 4179 and SS 4155 are recommended for use with these adhesive sealants (complete information and usage instructions for primers and RTV products are contained in separate product data sheets).

For optimum adhesion, surfaces should be thoroughly cleaned with a suitable solvent such as naphtha, methyl ethyl ketone (MEK) or iso propyl alcohol to remove dirt, oil and grease. The surface should be wiped dry before applying the silicone sealant.

Cure Time Cycle

The cure process begins with the formation of a skin on the exposed surface of the sealant and progresses inwards through the material. At 23° C and 50% relative humidity, ISBM HT 40 will form a surface skin, which is tack free to the touch in about 15 minutes. Within 24 hours a section of minimum 2mm is fully cured. Since cure times progressively increase with the thickness, sealant depth should be limited to 15 mm. Contact Momentive Performance Materials Silicones for assistance where applications involve depths greater than 15 mm. Higher temperatures and humidity will accelerate the cure process. Do not cure the sealant at or above 70° C as bubbles may form in the sealant that may affect the overall physical properties and adhesion.

Dispensing:

Bulk containers require a larger initial investment in dispensing equipment, but offer economical packaging for volume production. Bulk dispensing systems are air-operated extrusion pumps coupled to hand or automated dispensing units. Pumps, which are specifically designed, for one component condensation cure material like ISBM HT 40 have Teflon seals, gaskets and Teflon lined hoses to prevent moisture penetration and pump cure problems.

Specific details on dispensing systems and manufacturers are available upon request from Momentive Performance Materials.

Clean Up and Removal

For not cured material, solvent systems such as naphtha or methyl ethyl ketone (MEK) are most effective for clean-up. After cure, selected chemical strippers that will remove the silicone rubber are available from other manufacturers.

Availability

ISBM HT 40 is packed in 20 kg pails and 200 kg drums.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers)

may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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For literature and technical assistance, visit our website at: www.momentive.com

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