

Product Data Sheet TIC 7020 Elastomeric Vapour Barrier Sealant

Description

TIC 7020 Elastomeric Vapour Barrier Sealant is a one component, elastomeric-based product used as a vapour barrier sealant in the joints of cellular glass and urethane foam board stock insulations. It remains soft and flexible, preventing damage to the insulation due to thermal cycling through a wide range of temperatures.

TIC 7020 Elastomeric Vapour Barrier Sealant is primarily used with low temperature insulation to prevent the migration of water and water vapour into the insulation system via butt joints.

TIC 7020 Elastomeric Vapour Barrier Sealant is also recommended as a bedding compound for the installation of cellular glass insulation. In this application, it protects both the insulation from abrasion and metal surfaces from corrosion.

TIC 7020 Elastomeric Vapour Barrier Sealant is supplied in special “buttery” consistency, which facilitates application to insulation surfaces without stringing or excessive drag. It may apply at temperatures as low as 10 °C (50 °F) without difficulty.

TIC 7020 Elastomeric Vapour Barrier Sealant contains no asbestos, lead, mercury, or mercury compounds.

Properties

| Property | Specification | Test method |
|----------------------------|--|-------------|
| Color | Beige | TSTM-01 |
| Application | Trowel or power extrusion equipment | TSTM-06 |
| Density | 1.53 ± 0.05 Kg/ℓ | ASTM D 1475 |
| Volume non-volatile | 84 ± 1 % (mixed) | ASTM D 1644 |
| Weight non-volatile | 86 ± 1 % (mixed) | ASTM D 1644 |
| Coverage | 2.91 Kg/m ² (1.90 ℓ/m ²) Dried film thickness: 1.6 mm | TSTM-07 |
| Drying time | Set to touch: 2 ~ 3 hours Essentially non-drying | ASTM D 1640 |
| Service temperature limits | (Temperature at coated surface) -196 °C ~ 93 °C (-321 °F ~ 200 °F) | TSTM-04 |
| Water vapour permeance | ≤ 0.02 perms (DFT 1.3 mm) | ASTM E 96 |
| Wet flammability | ≥ 63 °C (145 °F) | ASTM D 3278 |
| Combustibility - dry | Combustible. Flame spread and fuel contribution negligible when used as sealant in 1/8 in. wide joints of incombustible insulation. | TSTM-14 |

Limitations

Store and apply between 4 °C (40 °F) and 38 °C (100 °F).

Always test solvent plastic materials for compatibility when using a solvent base product.

Do not use this product where surface temperature will exceed 78 °C (172 °F).

Not recommendable for use as flashing compound.

Application

Material Preparation

DO NOT THIN. Apply only to clean, dry, oil-free surfaces. Keep container closed when not in use.

Application

Apply by trowel, putty knife or power extrusion. When sealing insulation joints, apply TIC 7020 Elastomeric Vapour Barrier Sealant to the edges of abutting sections at 1/16 in. to 1/8 in. (1.6 to 3.2 mm) wet film thickness and press mating surfaces together firmly to squeeze out air bubbles and to obtain complete contact. Strike off excess sealant on surface with trowel.

- 1. Power Extrusion** - TIC 7020 Elastomeric Vapour Barrier Sealant may be applied using a wide variety of power (pressure) extrusion equipment suitable for use with solvent base sealants. It has soft and buttery consistency with a typical viscosity range of 150,000 - 250,000 cps.

Clean-up

Use solvent such as chlorinated solvent (non-flammable) or mineral spirits (flammable) for cleaning tools and equipment.

Note

Important: We make no other warranties and expressly disclaim any warranties of merchantability or fitness for a particular purpose. If a product fails to meet this limited warranty, purchaser's sole and exclusive remedy is replacement of the product or, at our option, refund of the purchase price. Our acceptance of any orders for the product is expressly conditional upon purchaser's assent to the terms on the applicable invoice.

Adequate Tests: The information contained herein we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be performed by you to determine if this product meets all of your requirements. The warranted shelf life of our products is six months from date of shipment to the original purchaser.

TIC CORPORATION

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