



Thermal Insulation Chemicals

TIC CORPORATION

Product Data Sheet **TIC 7020** Elastomeric Vapor Barrier Sealant

Description

TIC 7020 Elastomeric Vapor Barrier Sealant is a one component, butyl rubber-based product used as a vapor barrier sealant in the joints of cellular glass, polyisocyanurate, urethane and phenolic 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 Vapor Barrier Sealant is primarily used with low temperature insulation to prevent the migration of water and water vapor into the insulation system via butt joints.

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

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

Properties

Property	Specification	Test method
Color	Beige (Off-White)	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 %	ASTM D 1644
Weight non-volatile	86 ± 1 %	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 Vapor 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 inches. 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 93 °C (200 °F).

Not recommendable for use as flashing compound.



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Application Guide

TIC 7020

Elastomeric Vapor Barrier Sealant

Material Preparation

DO NOT THIN. Apply only to clean, dry 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 Vapor 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 Vapor 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 shelf life can be affected by storage and handling conditions. When products are stored in the original unopened container in an enclosed area and protected from contamination, moisture and extreme temperatures, the warranted shelf life is twelve months from the date of shipment to the original purchaser.