



Thermal Insulation Chemicals

TIC CORPORATION

Product Data Sheet

TIC 7010

Joint Sealant

Description

TIC 7010 Joint Sealant is gray vapor barrier sealant, designed for use with rigid thermal insulation including polystyrene foam. It remains flexible and tough in joints and will not shrink or crack during repeated cycles of high and low temperatures.

TIC 7010 Joint Sealant seals the joints of cellular glass and other insulations against the entrance of moisture. When used as a bedding compound on iron or steel surfaces and as a joint sealant, TIC 7010 joint sealant provides additional protection to the blocks of insulation. Damage to the insulation due to migration of moisture is minimizing.

TIC 7010 Joint Sealant is water, weather resistant, and often used as a sealant and flashing compound where structural parts must penetrate an insulation surface.

TIC 7010 Joint Sealant contains no asbestos, lead, mercury or mercury compounds.

Properties

Property	Specification	Test method
Color	Gray	TSTM-01
Application	Trowel or power extrusion equipment	TSTM-06
Density	1.58 ± 0.05 kg/ℓ	ASTM D 1475
Volume non-volatile	98 ± 1 %	ASTM D 1644
Weight non-volatile	99 ± 1 %	ASTM D 1644
Coverage	2.10 kg/m ² (1.33 ℓ/m ²) Dried film thickness: 1.3 mm	TSTM-07
Drying time	Set to touch: 8 hours	ASTM D 1640
Service temperature limits	(Temperature at coated surface) -73 °C ~ 150 °C (-99°F ~ 302°F)	TSTM-04
Water vapor permeance	≤ 0.008 perms (DFT 1.3 mm)	ASTM E 96
Wet flammability	≥ 93 °C (200 °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 between 4 °C (40 °F) and 38 °C (100 °F).

Apply between 10 °C (50 °F) and 43 °C (110 °F).

Allow to cure one week before placing in heated service.

Not recommend for use under solvent base elastomeric mastics and coatings, if minor surface discoloration and/or dirt pick-up would be objectionable.



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Application Guide

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Material Preparation

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

Application

Apply by trowel, putty knife, power extrusion or bulk caulking gun. When sealing insulation joint apply to TIC 7010 Joint Sealant at 1/16 to 1/8 inch wet film thickness (1.6 to 3.2 mm) and press mating surfaces together firmly to squeeze out air bubbles and to obtain complete contact. When flashing, do not trowel out to featheredge but maintain a minimum of 1/8 inch wet film thickness (3.2 mm) throughout the entire area of use. Use membrane as specified. For best results, allow to cure 24 - 48 hours before top coating with solvent-based elastomeric mastics or coatings.

1. **Power Extrusion** - TIC 7010 Joint Sealant may be applied using a wide variety of power (pressure) extrusion equipment suitable for use with oil base sealants. Typical viscosity range is 500,000 ~ 1,000,000 cps.

Clean-up

Clean tools and equipment with mineral spirits (flammable) or chlorinated solvent (non-flammable).

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.