



Thermal Insulation Chemicals

TIC CORPORATION

Product Data Sheet

TIC 7030

Flexible Joint Sealing

Description

TIC 7030 Flexible Joint Sealing is fire resistive, flexible butyl elastomer-based vapor barrier sealant. It is designed for sealing joints in insulation (except polystyrene foam), metal, and masonry wherever maintenance of a watertight and airtight seal is required. It can be used as joint sealant in low velocity duct air-conditioning systems. It is ideal for sealing the laps of aluminum jacketing to prevent the entrance of moisture.

TIC 7030 Flexible Joint Sealing is a fast-drying vapor barrier sealant that can be top coated with most solvent-thinned, flexible, light colored coatings without danger of bleed through. It is weather resistant and may be used outdoors without top coating.

TIC 7030 Flexible Joint Sealing is the preferred product for flashing projections and terminations where a complete moisture and vapor seal is required.

TIC 7030 Flexible Joint Sealing contains no asbestos, lead, mercury, or mercury compounds.

Properties

Property	Specification	Test method
Color	Aluminum (gray)	TSTM-01
Application	Trowel, caulking gun, or power extrusion equipment	TSTM-06
Density	1.09 ± 0.05 kg/ℓ	ASTM D 1475
Volume non-volatile	78 ± 1 %	ASTM D 1644
Weight non-volatile	80 ± 1 %	ASTM D 1644
Coverage	Trowel: 2.24 kg/m ² (2.05 ℓ/m ²) Dried film thickness: 1.6 mm Caulking gun (330mℓ tube): - 38m @3.2mm bead - 9m @6.4mm bead	TSTM-07
Drying time	Set to touch: 30~60 minutes Dry through: 72 hours	ASTM D 1640
Service temperature limits	(Temperature at coated surface) -101°C ~ 141°C (-150°F ~ 286°F)	TSTM-04
Water vapor permeance	≤ 0.005 perms (DFT 1.3mm)	ASTM E 96
Wet flammability	≥ 44°C (111°F)	ASTM D 3278
Surface burning characteristics	Classification: CLASS A Flame spread: 15 (0~25) Smoke developed: 5 (0~450) Surface: Applied over fiber reinforced cement board at a coverage rate of 25 sq.ft/gal (0.61 m ² /ℓ)	ASTM E 84

Limitations

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

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

When used in exposed locations without top coating, this product may darken or discolor due to surface dirt pick-up. This will not affect its performance.

Make certain this product is completely dry and the area free from solvent odor if food is involved.

Select TIC 7010 Joint Sealant for joint sealing polystyrene foam insulation.

Material Preparation

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

Application

Apply by trowel, putty knife, caulking gun or power extrusion. When sealing insulation joints apply TIC 7030 Flexible Joint Sealing to the edges of abutting sections at 1/16 in. to 1/8 in. (1.6 mm 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 a trowel. When flashing, do not trowel out to feather edge, but maintain a minimum of 1/8 in. (3.2 mm) wet film thickness throughout entire area of use. Use membrane as specified.

When sealing metal jacketing, apply sealant underneath the lap.

1. **Power Extrusion** - TIC 7030 Flexible Joint Sealing 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

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.