



Thermal Insulation Chemicals

TIC CORPORATION

Product Data Sheet

TIC 1030

H.I. Mastic

Description

TIC 1030 H.I. Mastic is a highly durable, protective weather coat for use over thermal insulation installed outdoors where economical breathing mastic is required.

TIC 1030 H.I. Mastic is an asphalt emulsion. It will not shrink or crack during curing. It has exceptional weathering stability and develops with its final set a firm, durable surface with good resistance to acids, alkalis, abrasion, and other abuses typical of outdoor industrial conditions. It has no heat flow, remaining hard and stable under all normal operating temperatures.

TIC 1030 H.I. Mastic contains no asbestos, lead, mercury or mercury compounds.

Properties

Property	Specification	Test method
Color	Black	TSTM-01
Application	Trowel or Glove	TSTM-06
Density	1.30 ± 0.05 kg/ℓ	ASTM D 1475
Volume non-volatile	50 ± 1 %	ASTM D 1644
Weight non-volatile	53 ± 1 %	ASTM D 1644
Coverage	7.8 kg/m ² (6.0 ℓ/m ²) Dried film thickness: 3.0 mm	TSTM-07
Drying time	Set to touch: 8 hours Dry through: 24 hours	ASTM D 1640
Service temperature limits	(Temperature at coated surface) -30 °C ~ 93 °C (-22 °F ~ 200 °F)	TSTM-04
Water vapor permeance	≤ 1.0 perms (DFT 3.0 mm)	ASTM E 96
Wet flammability	≥ 93 °C (200 °F)	ASTM D 3278

Limitations

Store and apply between 4 °C (40 °F) and 38 °C (100 °F). Protect from freezing until dry.

As with all asphalt emulsion products, application over insulations or cements containing soluble salts may show efflorescence or white scale deposits on the surface if water is present in the insulation. Efflorescence may remove by normal rainfall or washing after mastic is dry but may recur if water continues to be present in the insulation.

To resist rain-wash off, allow at least 24 hours drying time above 16 °C (61 °F), with a relative humidity of 50 %. Higher humidity or lower temperatures may retard drying.

TIC 1030 H.I. Mastics may dry and weather to a dark gray color.



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Application Guide

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Material Preparation

DO NOT THIN. Stir well, but do not use sticks or boards, which would splinter or otherwise contaminate the product. Apply only to clean, dry, oil free surfaces. Keep container closed when not in use. Cement coats must be dry.

This product cannot be successfully applied by brush or spray.

Application

1. **Outdoor and Heavy-Duty Service** - (To prevent water infiltration, properly flash all penetrations.) Prime dusty insulation or porous cements use with asphalt primer.
2. **Trowel** - Apply evenly with a minimum of overworking of material. It can be used with rubber glove on small radius pipes and vessels.

Clean-up

Clean equipment with clean fresh water before mastic dries, followed by mineral spirits (flammable) or chlorinated solvent (nonflammable). Use mineral spirits or chlorinated solvent after mastic dries.

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.