



Thermal Insulation Chemicals

TIC CORPORATION

Product Data Sheet TIC 2015/16 WB Vapor Barrier Mastic

Description

TIC 2015/16 WB Vapor Barrier Mastic is a high solids water based, fire resistive, flexible Vapor barrier finish for most types of thermal insulation, including polystyrene foam. It may be used over dry concrete, finishing cement, and most metals.

TIC 2015/16 WB Vapor Barrier Mastic is non-flammable when wet and has a mild latex paint type odor. It is designed for heavy duty/industrial use on pipes, vessels, ducts, and equipment operating between ambient temperatures. It may also be used for indoors.

TIC 2015/16 WB Vapor Barrier Mastic has the water resistance and low water vapor permeance normally found only in solvent based products. It can be used in high humidity environments, and greatly retards water vapor permeation.

TIC 2015/16 WB Vapor Barrier Mastic is ideal for vapor sealing ASJ, FRK, and FSK jackets and board facings at joints, laps and over staple and weld pin punctures. It is an excellent duct board closure sealant. Do not exceed 1/8" (3.2 mm) wet film thickness.

TIC 2015/16 WB Vapor Barrier Mastic contains no asbestos, lead, mercury, or mercury compounds.

Properties

Property	Specification	Test method
Color	TIC 2015 White / TIC 2016 Gray	TSTM-01
Application	Trowel or glove	TSTM-06
Density	1.38 ± 0.05 kg/ℓ	ASTM D 1475
Volume non-volatile	61 ± 1 %	ASTM D 1644
Weight non-volatile	71 ± 1 %	ASTM D 1644
Coverage	6.79 kg/m ² (4.92 ℓ/m ²) Dried film thickness: 3.0 mm	TSTM-07
Drying time	Set to touch: 60 ~ 90 minutes Dry through: 24 hours	ASTM D 1640
Service temperature limits	(Temperature at coated surface) -30 °C ~ 121 °C (-22 °F ~ 250 °F)	TSTM-04
Water vapor permeance	≤ 0.012 perms (DFT 1.1 mm)	ASTM E 96
Wet flammability	≥ 100 °C (212 °F)	ASTM D 3278
Surface burning characteristics	Classification: CLASS A Flame spread: 15 (0~25) Smoke developed: 45 (0~450) Surface: Applied over fiber reinforced cement board at a coverage rate of 25 sq.ft/gal (0.61 m ² /ℓ)	TSTM-14

Limitations

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

To resist rain-wash off, allow at least 24 hours drying time above 10 °C (50 °F), with a relative humidity of 50%. Higher humidity and/or lower temperature may retard drying.

Always test foil and paper facings for acceptable adhesion before using.

Outdoor horizontal surfaces must always drain completely. A pitch of at least 1/4" per foot (2 cm/m) is recommended.



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Application Guide

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Material Preparation

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

Application

To prevent water vapor and moisture infiltration, proper and complete flashing is required.

1. Moisture Barrier Sealer

1) Where required at all fittings and at specified intervals of straight-run pipe insulation, apply TIC 2015/16 WB Vapor Barrier Mastic at 1/16 inch (1.6 mm) thick to all butt joints of pipe insulation and onto the bore of the insulation for a minimum of 2 inches (5 cm) from the joint.

2) Position insulation, press firmly into place making certain that a complete unbroken seal is obtained.

2. Trowel/Glove - Use clean steel trowel. Apply each coat in full thickness before initial set. Avoid excessive troweling.

Clean-up

Use fresh water to clean brushes and equipment before product dries. For remove the dry product use hot soapy water (with ammonia added) or solvents such as chlorinated solvent (non-flammable) or xylene (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.