

Product Data Sheet TIC 2010/11 WB Vapour Barrier Coating

Description

TIC 2010/11 WB Vapour Barrier Coating is water base, fire resistive, flexible, high solids vapour barrier finish for most types of thermal insulation, including polystyrene foam. It may use over dry concrete, finishing cement, and most metals.

TIC 2010/11 WB Vapour Barrier Coating has the water resistance and low water vapour permeance normally found in only solvent-based products. It can use for high humidity environments, and greatly retards water vapour permeation. It is non-flammable in the wet state.

TIC 2010/11 WB Vapour Barrier Coating formulates for both indoor and light duty commercial outdoor use. It is U.V. resistant. It has a mild latex “paint type” odor, and is design for use on pipes, vessels, ducts, and equipment operates below ambient temperatures.

TIC 2010/11 WB Vapour Barrier Coating is ideal for vapour sealing ASJ, FRK, and FSK jackets and board facings at joints, laps and over staple and weld pin punctures. It is excellent sealant of duct board closure. Do not exceed 1/8” (3.2mm) wet film thickness.

TIC 2010/11 WB Vapour Barrier Coating contains no asbestos, lead, mercury, or mercury compounds.

Properties

Property	Specification	Test method
Color	TIC 2010 White / TIC 2011 Gray	TSTM-01
Application	Brush or airless spray	TSTM-06
Density	1.30 ± 0.05 Kg/ℓ	ASTM D 1475
Volume non-volatile	60 ± 1 %	ASTM D 1644
Weight non-volatile	70 ± 1 %	ASTM D 1644
Coverage	2.17 Kg/m ² (1.67 ℓ/m ²) Dried film thickness: 1.0 mm	TSTM-07
Drying time	Set to touch: 4 hours 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 vapour permeance	≤ 0.013 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: 5 (0~25) Smoke developed: 25 (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 and apply between 4 °C (40 °F) and 38 °C (100 °F), protect from freezing until dry.

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

Always select TIC 2010/11 WB Vapour Barrier Coating in the white color for use over polystyrene on outdoor installations.

Application

Material Preparation

Stir well, DO NOT THIN. Apply only to clean, dry, oil-free surfaces. Keep container closed when not in use.

Application

1. Indoor and Light Duty Outdoor

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

- 1) Apply tack coat of TIC 2010/11 WB Vapour Barrier Coating (color as selected) at 2 gallons per 100 square feet (0.8 ℓ/m²).
- 2) Smooth membrane to avoid wrinkles and overlap all seams at least 2 inches (5 cm). Apply finish coat of TIC 2010/11 WB Vapour Barrier Coating, within 1/2 hour of the tack coat application, at 2 gallons per 100 square feet (0.8 ℓ/m²).
- 3) This application shall provide a minimum dry film thickness of 37 mils (0.9 mm).

2. Moisture Barrier Sealer - Vapour Stops - Fiberglass Insulation

- 1) Where required at all fittings and at specified intervals of straight-run pipe insulation, apply TIC 2010/11 WB Vapour Barrier Coating 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 from the joint.
- 2) Position insulation, press firmly into place making certain that a complete unbroken seal obtain.

3. Brush - Use a good brush (suitable for water-based paints), making strokes as long as possible over the surface. Apply with full brush and spread out evenly. Do not overwork.

4. Spray - TIC 2010/11 WB Vapour Barrier Coating can be used by airless spray. For spray equipment information, please consult Airless Spray Recommendations or contact your airless spray equipment supplier. Average viscosity range is between 60,000 - 90,000 cps. Corrosion resistant pump and fitting are suggested.

Clean-up

Use fresh water for cleaning brushes and equipment before product dries. For remove the dry product use hot soapy water (with ammonia added) or strong 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 perform by you to determine if this product meets all of your requirements. The warranted shelf life of our products is twelve months from date of shipment to the original purchaser.

TIC CORPORATION

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