

Thermoskin™

UV Resistant, Self-Adhesive Weather & Moisture Barrier Membrane

Physical Properties

-Colour	White	-Minimum Puncture Resistance – Membrane (ASTM E154)	178 N (40 lbf)
-Thickness	1 mm (40 mils)	-Low Temperature Flexibility @ -30 °C (-22°F) (CGSB 37-GP-56M)	Pass
-Application Temp	Minimum - 5°C (25°F)	-Water Vapour Permeance (ASTM E96)	2.8 ng/Pa.s.m ² (0.05 perms)
-Service Temp	Minus 40°C to 60 ° C (-40°F to 140°F)	-Lap Peel Strength @ 4°C (40°F) (ASTM D903 180° bend)	2600 N/m width (15 lbs/ inch)
-Elongation (ASTM D412-modified)	40% minimum		
-Tensile Strength Membrane (ASTM D412- modified)	678 psi (4.7mPa)		
-Tensile Strength (Film) (ASTM C1136)	2812 psi (19.4 mPa)		
Mold Resistance (ASTM C665)	1875 psi (12.9 mPa)		
	No growth		

Packaging

-Thickness	1.0 mm (40 mils)	-Top Surface	White UV resistant laminate
-Roll length	10.21 m (33.5')	-Bottom Surface	Siliconized Release Paper
-Roll width	914 mm (36")		
-Gross Coverage	9.29 m ² (100ft ²)		

Description

Thermoskin™ is a UV resistant, self-adhering weather barrier membrane consisting of an SBS rubberized asphalt compound, integrally laminated to a reinforced glass scrim, UV resistant laminate. **Thermoskin™** is specifically designed to be self-adhered to a prepared substrate, providing a weather barrier.

Features

- UV resistant
- SBS modified membrane, flexible at low temperatures
- Impermeable to air, moisture vapour and water
- No flame or adhesive required for installation
- Excellent adhesion to prepared insulation and pipe substrates
- Membrane is self-sealing when penetrated with self-tapping screws
- Does not promote mould growth
- Replaces metal as well as mastic applications
- Protects buried pipes from corrosion due to oxygen and moisture
- Resistant to normal soil alkalies and acids
- Cathodic disbondment resistant

Uses

Thermoskin™ is designed for use as a jacketing system and waterproofing membrane over insulated ducts, chilled water piping, refrigeration pipes, plenums and housing to provide an ultra-violet resistant air / vapour and weather barrier membrane. Also used to waterproof and protect pipes from corrosion in underground applications.

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Storage

Store rolls on end, on original pallets or elevated platform. Protect unused portion of membrane by storing in original box to maintain self-adhesive quality. Protect from weather or store in an enclosed area not subject to heat over 50°C (120°F).

Limitations

Not to be used in direct contact with flexible/highly plasticized PVC/vinyl membranes or gaskets. Ensure that the surface temperature on hot systems does not exceed the membrane temperature limitations noted above. In insulated systems, best practice is to provide a two layer insulation systems to avoid thermal bridging.

Preparation

Seal all joints in ductwork to prevent air leakage. If all joints are not sealed properly, air leakage can result in "ballooning" of **Thermoskin™** membrane, **Henry Canada** will not be held responsible for such damage. Alternatively, allow appropriate venting through membrane to reduce pressure build-up.

Install FSK (foil-scrim-kraft) or foil faced insulation over ducts or piping and mechanically fasten using weld pins and washers or cup head pins welded to ductwork. Cover washer or cup head pin with a 100 mm (4") strip of **Thermoskin™**. Ensure positive slope to prevent the occurrence of ponding water. Install FSK facer over surfaces to which membrane will be applied if an insulation facer is not already present. Mechanically fasten as for insulation above.

All surfaces to which **Thermoskin™** will be applied must be clean of oil, dust, dirt, frost, welding residue, knurls, scale, loose rust and contaminants.

Application

Ducts: Position membrane for alignment, and begin application of membrane on bottom of duct, returning up sides a minimum of 100 mm (4"). Install sections of membrane on sides of duct and return on to the top side a minimum of 100 mm (4"). Finally, install top section, lapping down the sides 100 mm (4").

Pipes: Begin installation on side of insulated pipe, wrapping downward and around the circumference. Terminate to provide 100 mm (4") lap and ensure that lap sheds water for best durability.

For direct application to pipe, apply **Blueskin® Primer** at a rate of approximately 5m²/L and allow to dry for 30 minutes prior to **Thermoskin®** application.

Application is performed most effectively by removing the release film in small increments, pressing firmly in place as work progresses. When membrane is entirely in place, roll membrane including seams with a counter top roller or apply pressure using a plastic tape applicator to ensure full contact.

Cut around projections and seal with **SOLARFLEX® White Elastomeric Coating**.

Exposed membrane applied to the underside of the substrate wider than 600 mm (2') will require mechanical fastening. Fastening must take place immediately after installation of membrane and should be sealed with a 100 x 100 mm (4" x 4") patch of **Thermoskin™**. Buried applications of **Thermoskin®** do not require mechanical fastening.

Protection of Membrane:

Care must be taken during placement of pipe in trench and backfilling around the pipe to avoid damage. Backfill must be free from sharp objects unless suitable protection is provided.

Caution

Thermoskin™ is highly reflective to sunlight. **Henry Canada** strongly recommends the use of sunglasses to prevent eye damage when working with the membrane. <>