

Self-Adhesive Weather & Moisture Barrier Membrane
Physical Properties

-Colour	Aluminum	-Minimum Puncture Resistance – Membrane (ASTM E154)	178 N (40 lbf)
-Thickness	1.0 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)	2600 N/m width (15 lbs/ inch)
-Elongation (ASTM D412-modified)	40% minimum	(ASTM D903 180° bend)	
-Tensile Strength Membrane (ASTM D412- modified)	678 psi (4.7mPa)		
-Tensile Strength (Foil) (ASTM C1136)	2812 psi (19.4 mPa) 1875 psi (12.9 mPa)		
Mold Resistance (ASTM C665)	No growth		

Packaging

-Thickness	1.0 mm (40 mils)	-Top Surface	Foil Scrim
-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

Bakor FOILSKIN® consists of an SBS rubberized asphalt compound, integrally laminated to a glass scrim reinforced aluminum foil. **FOILSKIN®** is specifically designed to be self-adhered to a prepared substrate, providing a weather barrier.

Features

- SBS modified membrane, flexible at low temperatures
- Impermeable to air, moisture vapour and water
- No flame or adhesive required for installation
- Thickness controlled at point of manufacture
- Excellent adhesion to prepared pipe and insulation substrates
- Membrane is self-sealing when penetrated with self-tapping screws
- Self-adhesive membrane bond strengthens over time
- Does not promote mould growth
- Ultra-violet light resistant
- Replaces metal as well as mastic applications

Uses

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

Storage

Store **FOILSKIN®** 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 elements or store in an enclosed area not subject to heat over 40°C or under -10°C. Double stacked pallets are not recommended. If double stacking is necessary, use a plywood sheet to distribute the load.

FOILSKIN® Self-Adhesive Weather Barrier Membrane

Limitations

FOILSKIN® is 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. In insulated assemblies, best practice is to provide two layer insulation systems to avoid thermal bridging.

Preparation

Seal all joints in ductwork to prevent air leakage. Air leakage can result in “ballooning” of **FOILSKIN®**, **Henry Canada** will not be held responsible for such “ballooning”.

Install FSK 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 100mm (4”) strip of **FOILSKIN®**. Ensure positive slope to prevent the occurrence of ponding water.

Install FSK (foil-scrim-kraft) facer over surfaces to receive membrane, if not present as an insulation facer. Mechanically fasten as for insulation above.

All surfaces to receive **FOILSKIN®** must be clean of oil, dust and contaminants.

Application

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

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

Application of **FOILSKIN®** is performed most effectively by removing the release film in small increments, pressing firmly in place as work progresses. When the 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 **Bakor POLYBITUME® 570-05 Polymer Modified Sealing Compound and HE925 BES Sealant**

FOILSKIN® applied to the underside of the substrate wider than 600mm (2') requires 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 **FOILSKIN®**.

Caution

FOILSKIN® is highly reflective to sunlight. **Henry Canada** strongly recommends the use of sunglasses to prevent eye damage when working with the membrane.

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