

ALUMASEAL 123

Self-Adhesive Membrane

Water Barrier/Vapour Barrier/Air Barrier

Description

ALUMASEAL 123 is a foil surfaced self-adhesive membrane designed for use as a water/vapour/air barrier. Designed to be exceptionally pliable so that it will easily mold into place to suit any substrate or shape. May be installed over most surfaces such as wood, metal, concrete, drywall, etc. (some surfaces may require a primer).

Features

1. Aluminum foil top surfacing, repels destructive elements such as UV, ozone, acid rain, etc.
2. Excellent perm rating due to foil layer combined with rubberized bitumen.
3. Self-adhesive underside which will adhere to most clean dry surfaces and to itself at laps.
4. Self-sealing at nail or screw penetrations.
5. Exceptional pliability for ease of application to varied shapes and surfaces.

Specifications

Dimensions (roll contents):	1m x 21m (39.5"x 69'=200 sq.ft. coverage)
Thickness:	1.0 mm (40 mils) nominal
Weight:	86 Kg/m ² (0.18 lb/sq.ft.) nominal (40 lb./roll)
Reinforcement:	Grid style fibreglass scrim
Coating:	SBS modified asphaltic bitumen meeting CGSB-37-GP-50-M
Standards:	Meets CGSB-51.33 M89 (Vapour Barrier)

Typical Test Data

Tensile strength ASTM D828:	
Machine dir:	177 N/ 25mm (40 lb/inch)
Across dir:	177 N/ 25mm (40 lb/inch)
Water vapour permeance ASTM 96 Procedure B:	0.001 Metric perm (2.25 ng/Pa.s.m ²)
Air permeance subjected to 776.Pa (16.2 lbf/ft ²) pressure:	No air permeated after 24 hours
Pliability CAN/CGSB-51.33-M89 at -15C:	Pliable with no cracks formed
Lap tightness ASTM E96-BW:	No leakage after 98 hrs of waterhead
Nail sealing ability ASTM E96-BW with a nail inserted in the sample:	No leakage around the nail
High temp. (CGSB 37-GP-50M):	No coating movement after 6 hrs of vertical suspension @ 70C (158F)
Peel adhesion ASTM D903-49 (1983):	Min 8 N/cm

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ALUMASEAL 123 Cont'd

Applications and Uses

ALUMASEAL 123 is a multi-purpose membrane which can function exceptionally well as (1) a Roofing Membrane (2) a Vapour Barrier Membrane, and (3) an Air Barrier Membrane.

1. **Roofing:** Can be installed as a finished roof on either a non-sloped or a sloped surface. For a non-sloped roof we recommend that a base sheet (Permaboard) be installed first to achieve a two-ply system. For sloped roofs install membrane horizontally on slope beginning at bottom and working upwards. **CAUTION:** The foil surface may be slippery when wet or frosty. Use caution under these conditions.
2. **Vapour Barrier:** Can be used as a self-adhered, high performance vapour barrier. Install over a solid deck or directly onto fluted steel decking. Insulation fasteners may penetrate the self-sealing membrane with no adverse effects.
3. **Air Barrier:** Can be installed on walls or roof decks under metal roofing or cladding to provide a high degree of protection against air movement. On vertical surfaces check for bonding strength and if necessary use a primer first. Insulation and cladding fasteners may penetrate the self-sealing membrane with no adverse effects.

Installation

Install ALUMASEAL over a clean, dry, dust-free surface. Roll the material out onto deck surface and cut into convenient lengths. Place the sheet into position and align as desired. Peel-back and remove (approx) 1/3 m (13") of release paper from one end of sheet and adhere into correct position. Then roll up remainder of sheet and peel release paper away while unrolling material onto deck. Stretch sheet during installation to avoid wrinkles and fishmouths. End laps should be 150 mm (6") adhered over the aluminum foil. Side laps should be a minimum of 100 mm (4") extending onto the foil at least 25 mm (1"). Use a hand-roller or gloved hand to press all laps firmly into place. **NOTE:** Installation is easiest when temperature is moderate. Some surfaces may require a primer to achieve a good bond. Do not install in cold weather (below 5°C, 40°F) unless external heat is applied to bonding surfaces with a heat gun or propane torch.

Limitations

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| 1. High temperature: | Melting point (adhesive) 100C |
| 2. Petroleum solvents or greases: | Will effect integrity of membrane coating |

NOTE: For rough or dusty surfaces a primer is recommended to be used first. Primer may be an asphalt based or a clear elastomeric type. Ensure it is completely dry before installing membrane or blisters may occur.

CAUTION: Aluminum foil surface may become very slippery under wet or frosty conditions. Always advise workers and clients of this hazard.

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