

SOPRASEAL STICK 1100 T

Self-adhesive air/vapour barrier membrane

April 2024

DESCRIPTION:

SOPRASEAL STICK 1100 T is a self-adhesive membrane composed of SBS modified bitumen and a tri-laminated woven polyethylene facer. The tri-laminated woven polyethylene is compatible for the use of sprayed polyurethane foam insulation. The underface is covered with a silicone release paper or film.

SOPRASEAL STICK 1100 T is a air/vapour barrier, therefore functions as a above-grade waterproofing membrane within exterior wall assemblies.

SOPRASEAL STICK 1100 T is also used as a masonry and through wall flashing membrane as well as a waterproofing membrane at openings and transitions.

RECOMMENDED SUBSTRATES:

This product can be used on most substrates, such as masonry, concrete, wood, gypsum and metal.

PACKAGING:

Specification	SOPRASEAL STICK 1100 T (complete Roll)
Thickness	1.0 mm
Dimensions	0.91 x 22.9 m
Weight	1.0 kg/m ²
Selvedge width	50 mm
Surface	Tri-laminated woven polyethylene
Underface	Silicone release paper
Rolls per pallet	36

(All values are nominal)

TECHNICAL DATA:

Properties	Test Method	SOPRASEAL STICK 1100 T
Tensile strength, MD/XD	ASTM D5147	13.1/9.6 kN/m
Ultimate elongation, MD/XD	ASTM D5147	40 / 25%
Ultimate elongation (bitumen)	ASTM D5147	> 1000%
Flexibility at cold temperature	ASTM D5147	-35 °C
Flow at 110°C	ASTM D5147	Pass
Dynamic puncture	ASTM E154	575 N
Tear resistance, MD/XD	ASTM D5147	535/245 N
Lap adhesion	ASTM D1876	2100 N/m
Peel resistance on primed gypsum	ASTM D903	1180 N/m
Water vapour transmission	ASTM E96 (Procedure B)	< 2.5 ng/Pa•s•m ²
Air permeability, 75 Pa	ASTM E2178	< 0.0005 L/s•m ²
Air leakage resistance	ASTM E2357	< 0.002 L/s•m ²
Air permeance of membrane	CAN/ULC S741	< 0.001 L/s•m ²
Resistance to wind gusts	ASTM E330 (3000 Pa-10s)	No delamination, no variation of air permeability

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Properties	Test Method	SOPRASEAL STICK 1100 T
Resistance to uniform static air pressure	ASTM E330 (100 Pa-1h)	No significant delamination, no variation of air permeability
Fire resistance	Component of an assembly tested in conformity with NFPA 285	Pass
Nail sealability	ASTM D1970 modified	Pass

(All values are nominal)
SOPRASEAL STICK 1100 T is part of a wall system tested according to the ULC-S742 standard.

SURFACE PREPARATION:

The use of Equus Peel & Stick Primer is required before the installation of SOPRASEAL STICK 1100 T membrane. The substrate should be clean, sound, dry and free of loose materials, grease and any contaminants, which may compromise the performance of the product.

INSTALLATION:

SELF-ADHESIVE

Install the SOPRASEAL STICK 1100 T or SOPRASEAL STICK FLASHPRO membrane on angle changes, details and penetrations by removing the detachable silicone release paper or film from the self-adhesive underside.

Adhering the SOPRASEAL STICK 1100 T membrane to the substrate, making sure all overlaps are at least 50 mm (2 in).

To ensure proper adhesion, apply uniform pressure to the entire membrane using a hard roller.

To complete the installation, use the SOPRASEAL SEALANT with SOPRASEAL STICK 1100 T or SOPRASEAL STICK FLASHPRO to seal details, reverse laps, and critical areas.

Application temperatures

Winter grade: -10 to 10 °C

Summer grade: 10 to 50 °C

Service temperatures

Winter grade: -45 to 90 °C

Summer grade: -45 to 90 °C

UV exposure

Up to 90 days

Note: When sprayed insulation is to be applied on the SOPRASEAL STICK 1100 T membrane, additional protection measures are recommended to prevent a possible delamination of the membrane caused by the curing of the insulation. Metal bars must be mechanically fastened at the building perimeter, at membrane transitions, and around the frame of doors and windows and all other openings.

For complete information on product installation, please consult your Equus Representative.

LIMITATIONS:

SOPRASEAL STICK VP-S FR must not be used as a temporary waterproofing membrane. Roofing materials must be installed as soon as possible.

SCOPE OF USE:

SOPRASEAL STICK 1100 T is used as an air/vapour barrier in wall construction. The product can be used on most surfaces, such as masonry, concrete, wood, gypsum and metal. Where insulation is used in the exterior wall assembly, the whole structure is kept on the 'warm side' which greatly reduces thermal bridging. The membrane is resistant to air leaks, water infiltration and diffusion of water vapour.

CONDITIONS OF USE:

SOPRASEAL STICK 1100 T should not be installed at temperatures below -10°C, when it is raining, snowing or very humid. SOPRASEAL STICK FLASHPRO HT tape shall be used to form a tight perimeter seal around various openings, and SOPRASEAL SEALANT shall be used to seal details, reverse laps and critical details.

SOPRASEAL STICK 1100 T may be exposed to UV conditions for a maximum of 90 days.

The product must be installed by a Certified Equus Applicator. Verification of their status can be confirmed by a current applicator certificate or by contacting Equus Industries Ltd. Any installation must be done in accordance with the latest specifications and technical documentation, or with written approval by Equus Industries Ltd.

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BUILDING CODE COMPLIANCE:

B2 Durability - B2.3.1 (b) SOPRASEAL STICK 1100 T has a durability of at least 15 years, when installed with the correct specification, installation and maintenance.

E2 External moisture - E2.3.2, E2.3.5, E2.3.6, E2.3.7 Test data, together with in-service history internationally, of the correctly installed SOPRASEAL STICK 1100 T membrane over correctly designed and constructed substrates, show that the air barrier membrane successfully resists the ingress of moisture, and prevents external moisture accumulating and causing degradation of building elements.

F2 Hazardous building materials - F2.3.1 Well known experience with the type of materials used together with in-service history, show that SOPRASEAL STICK 1100 T complies with this performance requirement. Refer to SDS at www.equus.nz

H1 Energy efficiency - H1.3.1 (b) Test-data shows that SOPRASEAL STICK 1100 T provides the building with limited uncontrollable airflow.

SUPPORTING DOCUMENTATION

Test reports can be provided by SOPREMA New Zealand Ltd.

STORAGE AND HANDLING:

Rolls must be stored upright, with the selvedge side on top. If the product is stored outdoors, cover them with an opaque protective cover after removal of the delivery packaging.

WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURERS CONTACT DETAILS:

Manufacture location	China
Legal and trading name of manufacturer	Soprema New Zealand Limited
Manufacturer address for service	Level 3, Candida Building 4, 61 Constellation Drive, Mairangi Bay, Auckland 0630, New Zealand
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Manufacturer NZBN	9429050312962