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**TECHNICAL DATA SHEET**

# **Soprema Sopraseal Stick 1100T**

Manufacturer: Soprema Inc.

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8241 129 St, Surrey, BC V3W 0A6

604-540-9040 · sales@bcbp.ca · bcbp.ca

# SOPRASEAL STICK 1100 T

TECHNICAL DATA SHEET 260325SCANE

(supersedes 260227SCANE)



WATERPROOFING

APPLICATIONS

WALLS

## 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 an air/vapour barrier, therefore functions as an 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.

## SURFACE PREPARATION

The use of SOPRASEAL STICK PRIMER, ELASTOCOL STICK ZERO or ELASTOCOL STICK H<sub>2</sub>O 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

1. 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.
2. Adhere the SOPRASEAL STICK 1100 T membrane to the substrate, making sure all overlaps are at least 50 mm (2 in).
3. To ensure proper adhesion, apply uniform pressure to the entire membrane using a hard roller.
4. 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 (14 to 50 °F)

Application temperatures (summer grade): 10 to 50 °C (50 to 122 °F)

Service temperatures (winter grade): - 45 to 90 °C (- 49 to 194 °F)

Service temperatures (summer grade): - 45 to 90 °C (- 49 to 194 °F)

UV exposure: up to 90 days.

## WARNING

When spray-applied insulation must be installed over the SOPRASEAL STICK 1100 T membrane, additional protective measures must be taken to prevent potential membrane delamination caused by the curing of the insulation. Metal bars must be mechanically fastened around the building perimeter, at membrane transitions, and around door and window frames, as well as any other openings. In addition, when spray-applied insulation must be installed over the SOPRASEAL STICK 1100 T membrane, it is recommended not to expose the membrane to inclement weather for more than 90 days.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.



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## GENERAL INFORMATION

| Specifications            | SOPRASEAL STICK 1100 T                                  |                                                                                                                                                                                                                                                                                   |
|---------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | Complete roll                                           | Pre-cut roll                                                                                                                                                                                                                                                                      |
| Thickness                 | 1.0 mm (40 mils)                                        |                                                                                                                                                                                                                                                                                   |
| Dimensions                | 0.91 x 22.9 m (3 x 75 ft)                               | 100 mm x 22.9 m (4 in x 75 ft)<br>150 mm x 22.9 m (6 in x 75 ft)<br>225 mm x 22.9 m (9 in x 75 ft)<br>300 mm x 22.9 m (12 in x 75 ft)<br>350 mm x 22.9 m (14 in x 75 ft)<br>400 mm x 22.9 m (16 in x 75 ft)<br>450 mm x 22.9 m (18 in x 75 ft)<br>600 mm x 22.9 m (24 in x 75 ft) |
| Gross / net area per roll | 20.8 / 19.7 m <sup>2</sup> (224 / 212 ft <sup>2</sup> ) | -                                                                                                                                                                                                                                                                                 |
| Weight                    | 1.0 kg/m <sup>2</sup> (0.2 lb/ft <sup>2</sup> )         |                                                                                                                                                                                                                                                                                   |
| Selvage width             | 50 mm (2 in)                                            | -                                                                                                                                                                                                                                                                                 |
| Surface                   | Tri-laminated woven polyethylene                        |                                                                                                                                                                                                                                                                                   |
| Underface                 | Silicone release paper                                  | Silicone release film                                                                                                                                                                                                                                                             |
| Qty/pal                   | 36                                                      | Varies depending of the width                                                                                                                                                                                                                                                     |

## PROPERTIES

SOPRASEAL STICK 1100 T meets the CSA A440.4 standard for windows and doors installation.

| Properties                       | Standards  | SOPRASEAL STICK 1100 T |                     |
|----------------------------------|------------|------------------------|---------------------|
|                                  |            | MD                     | XD                  |
| Tensile strength                 | ASTM D5147 | 13.1 kN/m (74 lb/in)   | 9.6 kN/m (55 lb/in) |
| Ultimate elongation              | ASTM D5147 | 40%                    | 25%                 |
| Ultimate elongation (bitumen)    | ASTM D5147 | > 1000%                |                     |
| Flexibility at low temperature   | ASTM D5147 | -35 °C (-31 °F)        |                     |
| Dynamic puncture                 | ASTM E154  | 575 N (129 lbf)        |                     |
| Tear resistance                  | ASTM D5147 | 535 N (120 lbf)        | 245 N (55 lbf)      |
| Flow,<br>at 110 °C (230 °F)      | ASTM D5147 | Pass                   |                     |
| Lap adhesion                     | ASTM D1876 | 2100 N/m (12 lbf/in)   |                     |
| Peel resistance on primed gypsum | ASTM D903  | 1180 N/m (7 lbf/in)    |                     |

(All values are nominal)



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## PROPERTIES *(continued)*

| Properties                                                 | Standards                                                                                            | SOPRASEAL STICK 1100 T                                       |    |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----|
|                                                            |                                                                                                      | MD                                                           | XD |
| Water vapour permeance                                     | ASTM E96<br><i>(Procedure A and B)</i>                                                               | < 2.5 ng/Pa•s•m <sup>2</sup> (< 0.04 perm)                   |    |
| Air permeability,<br>at 75 Pa                              | ASTM E2178                                                                                           | < 0.0005 L/s•m <sup>2</sup> (< 0.00001 cfm/ft <sup>2</sup> ) |    |
| Air permeance of membrane                                  | CAN/ULC S741                                                                                         | < 0.001 L/s•m <sup>2</sup>                                   |    |
| Air leakage resistance                                     | ASTM E2357                                                                                           | < 0.002 L/s•m <sup>2</sup>                                   |    |
| Resistance to wind gusts,<br>at 300 Pa-10s                 | ASTM E330                                                                                            | No delamination, no variation of air permeability            |    |
| Resistance to uniform static air pressure,<br>at 100 Pa-1h | ASTM E330                                                                                            | No delamination, no variation of air permeability            |    |
| Fire resistance                                            | Component of an assembly tested in conformity with NFPA 285, CAN/ULC-S134 and CAN/ULC-S101 standards | Pass                                                         |    |
| Nail sealability                                           | ASTM D1970 modified                                                                                  | Pass                                                         |    |
| Crack bridging                                             | ASTM C1305                                                                                           | Pass                                                         |    |
| Watertightness                                             | CGSB 37.58-M86                                                                                       | Pass                                                         |    |

(All values are nominal)

Note: SOPRASEAL STICK 1100 T is part of a wall system tested according to the ULC-S742 standard.

## 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.

## TESTS, CERTIFICATIONS AND EVALUATIONS



FOR MORE INFORMATION, REFER TO THE INSTRUCTIONS ON THE LABEL AND RELEVANT SAFETY DATA SHEET (SDS).



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