

# SOPRASEAL

## 180 HD & 180 HD FF

TECHNICAL DATA SHEET 180126SCANE

(supersedes 170104CANE)



WATERPROOFING

APPLICATIONS

WALLS

### DESCRIPTION

SOPRASEAL 180 HD & 180 HD FF membranes are used as air and vapour barriers on walls. These membranes are composed of SBS modified bitumen and a non-woven polyester reinforcement. The top surface of the membrane is either sanded or covered with a thermofusible plastic film.

### RECOMMENDED SUBSTRATES

This product can be used on most substrates, such as masonry, concrete and exterior gypsum board (glass mat reinforcement surface, paper free).

### SURFACE PREPARATION

The use of primer **ELASTOCOL 500** is required before the installation of **SOPRASEAL 180 HD & 180 HD FF** membrane. The substrate should be clean, sound, free of excess water and loose materials, grease and any contaminants, which may compromise the performance of the product.

### INSTALLATION

#### HEAT-WELDED

SOPRASEAL 180 HD & 180 HD FF membrane must be adhered to support by using a torch and should not be bonded using hot asphalt.

#### Torching technique:

- Masonry and concrete: Use the usual procedure for torching on walls (rectangular pattern).
- Exterior gypsum board: In order to limit blisters, use a welding method different from the usual procedure (rectangular pattern). SOPREMA recommends to point the flame on the top of the roll only, while taking care to obtain sufficient heat for a good adhesion of the membranes.

All membrane overlaps must be a minimum of 50 mm (2 in).

Once installed, seal termination of the membrane using a round-nosed trowel.

Application temperatures: above -35°C (-31°F)

SOPRASEAL 180 HD & 180 HD FF membranes are self-sealing when penetrated with wall insulation screws.

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



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### PACKAGING

| Specifications                | SOPRASEAL 180 HD                                     | SOPRASEAL 180 HD FF |
|-------------------------------|--|---------------------|
| Thickness                     | 3.0 mm   |                     |
| Dimension                     | 10 X 1 m   |                     |
| Gross / Net coverage per roll | 10 / 9.5 m <sup>2</sup> (107 / 102 ft <sup>2</sup> ) |                     |
| Roll Weight                   | 35 kG  | 33 kG               |
| Reinforcement type            | Non-Woven Polyester                                  |                     |
| Top face                      | Sand   | Film                |
| Underface                     | Thermofusible plastic film                           |                     |
| Storage                       | Upright on pallet                                    |                     |

(All values are nominal)

### PROPERTIES

| Properties                                      | Standards                               | SOPRASEAL 180 HD & SOPRASEAL 180 HD FF |
|---|---|--|
| Breaking strength, MD/XD                        | CAN/CGSB-37.56-M, 9 <sup>TH</sup> draft | 17 / 12.5 kN/m                         |
| Ultimate elongation, MD/XD                      | CAN/CGSB-37.56-M, 9 <sup>TH</sup> draft | 60 / 65 %                              |
| Cold bending<br>- initial<br>- 90 days at 70 °C | CAN/CGSB-37.56-M, 9 <sup>TH</sup> draft | -30 °C                                 |
| Plastic flow                                    | CAN/CGSB-37.56-M, 9 <sup>TH</sup> draft | 115 °C                                 |
| Dimensional stability, MD/XD                    | CAN/CGSB-37.56-M, 9 <sup>TH</sup> draft | - 0.4 / 0.3 %                          |
| Static puncture                                 | CAN/CGSB-37.56-M, 9 <sup>TH</sup> draft | 400 N                                  |
| Tear resistance                                 | ASTM D5601                              | 60 N                                   |
| Water vapour permeance                          | ASTM E96<br>(Procedure B)               | 0.21 ng/Pa•s•m <sup>2</sup>            |
| Air permeability, 75 Pa                         | ASTM E283 (75 Pa)                       | No measurable air leakage              |
| Air permeance of membrane                       | CAN/ULC S741                            | < 0.001 L/s•m <sup>2</sup>             |
| Air permeability, 75 Pa                         | ASTM E2178                              | < 0.001 L/s•m <sup>2</sup>             |

(All values are nominal)

### 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.

SYSTÈME QUALITÉ  
ISO 9001  
QUALITY SYSTEMSYSTÈME ENVIRONNEMENT  
ISO 14001  
ENVIRONMENT SYSTEM

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NOTE : SOPREMA INC. may modify the composition and/or use of its products without prior notice.

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