



WATERPROOFING

APPLICATIONS

WALLS

# SOPRASEAL

## 180 HD & 180 HD FF

TECHNICAL DATA SHEET 200616SCANE

(supersedes 180126SCANE)

### 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 - initial - 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 (Procedure B)	2.5 ng/Pa•s•m <sup>2</sup> (0.04 perm)
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 selvage side on top. If the product is stored outdoors, cover them with an opaque protective cover after removal of the delivery packaging.



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