

# SOPRALENE

**SOPRALENE** is a serie of fully reinforced membranes specially designed for roofing, below grade waterproofing and tanking applications. High performance SBS modified bitumen combined with an ultra-high strength non-woven polyester reinforcement provides unsurpassed puncture resistance.

The top face of the membranes is SBS modified bitumen with a plastic film, sand or slate flakes. The underface is a thermofusible plastic film.

## ► FEATURES AND BENEFITS

- High mechanical properties: good movement accommodation; resistant to tear and puncture.
- High resistance to hydraulic pressure: provides an impermeable and low absorption layer.
- Wide temperature tolerance: stable in tropical climates; resistant to thermal ageing and shock.
- High chemical resistance: withstands effects of salts and other corrosive agents in soil and water.
- Versatile: available with a range of reinforcements, thickness and surface finishes for use in variety of applications.

## ► INSTALLATION

For complete installation specification, detailed drawings and technical information please contact your local SOPREMA representative. Always use qualified personnel for the installation of the membranes.

## ► SURFACE PREPARATION

All surfaces must be smooth, dry, clean and free of debris.

For concrete or metal substrates, the surface must be primed with a bituminous primer approved by Soprema to enhance the adhesion of the torch-applied waterproofing **SOPRALENE** membranes.

Primer should be applied at the rate of:

- porous surfaces: 0.3 to 0.5 L/m<sup>2</sup>
- non-porous surfaces: 0.1 to 0.25 L/m<sup>2</sup>

## ► MATERIALS STORAGE

Rolls of materials should be handled with care and proper equipment. They should be vertically stored and adequately protected in accordance with the manufacturer's recommendations.

## ► MEMBRANE APPLICATION

Begin application by aligning the first roll of membrane to a previously drawn chalk line. Heat concrete surface and membrane with a propane gas torch. Unroll membrane once bitumen starts to liquify. Subsequent rolls should maintain minimum 75 mm side laps and 100 mm end laps. On upstands, the uppermost edge of the membrane is to be mechanically fastened to the concrete substrate using terminat bars. Apply SOPRAMASTIC around protrusions and on the top edge of the termination bar to prevent water accumulation and infiltration.

## ► MEMBRANE REPAIRS

Holes and tears in the membrane can be repaired with a piece of membrane. The repair must exceed the affected surface area by at least 100 mm.

## ADVANTAGES

### CENTURY OF INNOVATION

Over a century of experience in all types of waterproofing applications

### THICKNESS

Available in a variety of thicknesses  
3 mm, 4 mm and 5 mm

### REINFORCEMENTS

Available in 2 grades of reinforcements  
180g/m<sup>2</sup> and 250 g/m<sup>2</sup>

### SINGLE OR 2 PLY APPLICATION

Can be used in a single or 2 ply application, vertically & horizontally

### ADHESION

Heat welded application ensuring full adhesion to surface

### SEAMS

Heat welded seams to ensure both ends and side laps are 100% sealed

### DURABILITY

Excellent resistance to ageing factors

### PUNCTURE RESISTANCE

Excellent puncture resistance

### ISO CERTIFIED

ISO 9001 Certified for quality management

### WARRANTY

Standard 10 years

### NON WOVEN POLYESTER 180 g/m<sup>2</sup>

	3.0 S	3.0 P	4.0 S	4.0 P	4.0 F	5.0 S	5.0 P	5.0 F
<b>Reinforcement</b>	NON WOVEN POLYESTER 180 g/m <sup>2</sup>							
<b>Thickness</b>	3.0 mm		4.0 mm			5.0 mm		
<b>Roll Dimensions</b>	10 X 1 m	10 X 1 m	8 X 1 m	8 X 1 m	8 X 1 m	8 X 1 m	8 X 1 m	8 X 1 m
<b>Roll Weight</b>	36 kg	35 kg	39 kg	38 kg	39 kg	50 kg	49 kg	50 kg
<b>Top Face</b>	Sand	Plastic Film	Sand	Plastic Film	Slate Flakes	Sand	Plastic Film	Slate Flakes
<b>Underface</b>	Plastic Film							
<b>Storage</b>	Upright on Pallet							

### NON WOVEN POLYESTER 250 g/m<sup>2</sup>

	4.0 S	4.0 P	4.0 F	5.0 S	5.0 P	5.0 F
<b>Reinforcement</b>	NON WOVEN POLYESTER 250 g/m <sup>2</sup>					
<b>Thickness</b>	4.0 mm			5.0 mm		
<b>Roll Dimensions</b>	8 X 1 m	8 X 1 m	8 X 1 m	8 X 1 m	8 X 1 m	8 X 1 m
<b>Roll Weight</b>	39 kg	38 kg	39 kg	50 kg	49 kg	50 kg
<b>Top Face</b>	Sand	Plastic Film	Slate Flakes	Sand	Plastic Film	Slate Flakes
<b>Underface</b>	Plastic Film					
<b>Storage</b>	Upright on Pallet					

Property	Standard	SOPRALENE 180	SOPRALENE 250
<b>Tensile Strength, L / W</b>	EN 12311-1	800 / 650 N/5 cm	1100 / 900 N/5 cm
<b>Elongation at max load, L / W</b>	EN 12311-1	45 / 45 %	45 / 45 %
<b>Cold Temperature Flexibility</b>	EN 1109	Pass at -20°C	Pass at -20°C
<b>Cold Temperature Flexibility, after EN 1296 accelerated aging</b>	EN 1109 / EN 1296	Pass at -5°C	Pass at -5°C
<b>Flow Property at High Temperature</b>	EN 1110	105°C	105°C
<b>Flow Property at High Temperature, after EN 1296 accelerated aging</b>	EN 1110 / EN 1296	100°C	100°C
<b>Dimensional Stability</b>	EN 1107-1	0.5 %	0.5 %
<b>Tear Resistance, L / W</b>	ASTM-D4073	600 / 480 N	800 / 600 N
<b>Resistance to Static Puncture</b>	NF P 84-352	L <sub>1</sub> (25 kg)	L <sub>1</sub> (25 kg)
<b>Resistance to Dynamic Puncture</b>	NF P 84-353	D <sub>2</sub> (10 J)	D <sub>2</sub> (20 J)
<b>Nail Tear Resistance, L / W</b>	EN 12310-1	200 / 200 N	250 / 250 N
<b>Lap Shear Strength</b>	EN 12317-1	500 N/5 cm	750 N/5 cm
<b>Waterhightness Test</b>	EN 1928	Pass	Pass