

## SOPRALENE 180-40 AR SI

**SOPRALENE 180-40 AR SI** is a flexible SBS elastomeric bitumen waterproofing membrane with a stabilized glass/polyester reinforcement.

The topside is self-protected by slate chippings and the underside enables semi-independence due to the presence of heat-welded fusible elastomeric bitumen strips protected by a thermofusible film.

### User application

**SOPRALENE 180-40 AR SI** is used as semi loose laid self-protected membrane for elastomeric bitumen waterproofing systems.

All the applications are described in Technical Approvals or **SOPREMA**'s Technical Guidelines in force.

### Composition

	<b>SOPRALENE 180-40 AR SI</b>
Reinforcement	Stabilized glass/polyester
Binder	Elastomeric bitumen : blend of selected bitumen and SBS* thermoplastic polymers
Thickness MDV <sup>(1)</sup> according to 13707 Minimum on overlap	4,7 mm (± 0,2 mm) 4,0 mm (indicative)
Topside	Slate chippings
Underside	Bitumen sand/film strips
Overlap	Thermofusible film, width ≥ 9 cm
*According to UEAtc directives concerning the normalization of waterproof elastomeric SBS bitumen coverings ( <sup>1</sup> ) MDV = Manufacturer's Declared Value	

### Packaging

	<b>SOPRALENE 180-40 AR SI</b>
Dimensions of the roll	8 m x 1 m
Weight of the roll	about 45 kg
Colours	Black, Grey, Matisse brown, Gauguin red, Veronese green, Cezanne sienna, Chagall grey or Van Gogh ochre
Storage	Upright on pallet with plastic wrapping
Roll lengths are given with a tolerance of < 1 %. Width of roll is given with a tolerance of 1% (UEAtc). Rolls must be stored upright on flat ground. During storage, protect the rolls against moisture. In cold weather, we recommend that the rolls be kept at a minimum temperature of + 2°C (+ 36 °F) for at least 5 hours before installation.	

## Installation

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**SOPRALENE 180-40 AR SI** must be applied by torch-on techniques or by heat welding.

Hot bitumen must not be used in the bonding process.

## Special indications

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### **Hygiene, health and environment:**

The product does not contain any substance likely to be detrimental to health or to environment and complies with generally admitted Health and Safety Requirements. For further information, please refer to relevant Safety Data Sheet.

### **Traceability:**


Product traceability is ensured through a manufacturing code present on the packaging.

### **Quality control:**

**SOPREMA** has always attached the highest importance to the quality of its products, to the respect of environment and men.

For this reason, we apply an integrated management of the Quality and Environment certified **ISO 9001** and **ISO 14001**.

## CE marking

 <b>1119</b>
<b>SOPRALENE 180-40 AR SI</b>  <b>SOPREMA</b> 14 rue de Saint-Nazaire – CS 60121 67025 STRASBOURG cedex  <b>06</b> Construction Product Regulation (CPR) Declaration of Performance : DoP n° WPBEX224 Certificate of Factory Production Control : 1119-CPR-13132, 13133, 13134.
<b>EN 13707</b> Membrane composed of modified elastomeric bitumen and stabilized glass/polyester reinforcement. Topside is self-protected by slate chippings and the underside is covered by heat-welded strips. Dimensions 8 m x 1 m x 4,7 mm. Applied by torch-on techniques. Semi loose laid unilayer.

Essential characteristics	Performances	Harmonised Technical Specification
Classification for external fire exposure (Note 1)	<b>F<sub>ROOF</sub> (t1,t2,t3,t4)</b>	<b>EN 13707:2004 + A2:2009</b>
Reaction to fire	<b>E</b>	
Watertightness	<b>Conform</b>	
Tensile properties : Tensile strength L x T (N / 50 mm) Elongation L x T (%)	<b>≥ 550 x 500 30 x 30</b>	
Root resistance	<b>NPD</b>	
Resistance to static loading (kg)	<b>20</b>	
Resistance to impact (mm)	<b>1000</b>	
Resistance to tearing (N)	<b>≥ 200</b>	
Joint strength Peel resistance of joints (N / 50 mm) Shear resistance of joints (N / 50 mm)	<b>≥ 100 ≥ 500</b>	
Durability Flow resistance at elevated temperature after ageing	<b>80°C</b>	
Flexibility at low temperature	<b>-16°C</b>	
Dangerous substances (Notes 2 and 3)	<b>Complies</b>	

Note 1 : Since external fire performance depends on the other components of the roof build-up, no performance can be given.

Note 2 : This product does not contain asbestos or tar constituents.

Note 3 : Since there is no European test method available, no performance declaration for leaching behavior can be made. It must be made according to national rules in force in the place of use.

Additional characteristics	SOPRALENE 180-40 AR SI
	<b>MLV*</b>
Flow resistance at elevated temperature (EN 1110)	90 °C
Dimensional stability (EN 1107-1)	0,5 %
*MLV = Manufacturer's Limiting Value: Minimum value as started by the manufacturer to be met during testing of type, internal quality control or external supervision with a confidence level of 95 %	