

## SOPRALENE FLAM 180-40 AR

**SOPRALENE FLAM 180-40 AR** is a SBS elastomeric bitumen waterproofing membrane with a non-woven polyester reinforcement.

The topside is protected by slate chippings and the underside is covered by a thermofusible film.

### User application

**SOPRALENE FLAM 180-40 AR** is used as self-protected unilayer elastomeric bitumen waterproofing systems. To be used outside only.

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

### Composition

		<b>SOPRALENE FLAM 180-40 AR</b>
Reinforcement		Non-woven polyester
Binder		Elastomeric bitumen : blend of selected bitumen and SBS* thermoplastic polymers
Thickness	On overlap	4,0 mm (-5 % ; + 5 %)
Topside		Slate chippings
Underside		Thermofusible film
Overlap		≥ 80 mm
*According to UEAtc directives concerning the normalization of waterproof elastomeric SBS bitumen coverings		

### Packaging

		<b>SOPRALENE FLAM 180-40 AR</b>
Dimensions of the roll		8 m x 1 m
Weight of the roll		about 46 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
<p>Roll lengths are given with a tolerance of ≤ 1 %. Roll can be cut in two parts. In this case, the shortest length is 2 meters and the total length is equal to the nominal length.</p> <p>Width of roll is given with a tolerance of 1% (UEAtc). Rolls must be stored upright on flat ground. Pallets may be stacked to a maximum of two high with separating layer. 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.</p>		

## Characteristics (outside CE marking)

	<b>SOPRALENE FLAM 180-40 AR</b>
Static puncture resistance (NF P 84-352)	≥ 25 kg (L4)
Dynamic puncture resistance (NF P 84-353)	≥ 10 J (D2)
FIT classification as monolayer	F5 I4 T4

## Installation

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

Hot bitumen must not be used in the bonding process.

## Special indications

### **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 FLAM 180-40 AR</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° WPBFR236 Certificate of Factory Production Control : 2007-CPR-13132, 13133, 13134 (EN 13707).
<b>EN 13707</b> Membrane composed of modified elastomeric bitumen and non-woven polyester reinforcement. Topside is protected with slate chippings and underside is covered by a thermofusible film. Dimensions : 8 m x 1 m x 4,0 mm. Applied by torch-on techniques. 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 400 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 ≥ 400</b>	
Durability Flow resistance at elevated temperature after ageing	<b>90°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 FLAM 180-40 AR
Flow resistance at elevated temperature (EN 1110)	100 °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 %	