

## SOPRALENE FLAM BOND

**SOPRALENE FLAM BOND** is a new generation waterproofing membrane, composed of different blends including high-performance TPU-SBS flexible elastomeric bitumen and reinforced with a heavy duty non-woven polyester fleece.

The top side is composed with a long-lasting binder covered with fine sand and the underside is composed with our new innovative binder called **Amalgama** covered by a thermofusible film.

We designed this membrane to save time and money during installation for new or refurbished flat roofs with exceptional bond strength on substrate with a full and seamless adherence system while reducing gas torch energy consumption and to be adaptable to many substrates without trapped air bubbles.

### User application

**SOPRALENE FLAM BOND** is used as a first, secondary or single layer under protection for elastomeric bitumen waterproofing systems using an advanced low heat-reactive binder on difficult substrates.

**Amalgama** is a new generation of high engineered binder composed with TPU-SBS polymer compound.

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

### Composition

	SOPRALENE FLAM BOND
Reinforcement	Heavy duty non-woven polyester
Binders	Elastomeric bitumen: blends of selected bitumen and SBS* thermoplastic polymers
Thickness (EN 1849-1)	4,4 mm (-5% ; +5%)
Topside	Fine sand
Underside	Thermofusible film
Overlap	≥ 80 mm with a thermofusible film
*According to UEAtc directives concerning the normalization of waterproof elastomeric SBS bitumen coverings	

### Packaging

	SOPRALENE FLAM BOND
Dimensions of the roll	8 m x 1 m
Weight of the roll	about 41 kg
Number of rolls/pallet	25
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.	

## Characteristics (outside CE marking)

	Test method	SOPRALENE FLAM BOND
Bond strength to concrete <i>with Elastocol 500 bituminous primer</i>	EN 13596	≥ 0.4 MPa

## Installation

**SOPRALENE FLAM BOND** must be applied by 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 BOND</b>  <b>SOPREMA</b> 14 rue de Saint-Nazaire – CS 60121 67025 STRASBOURG cedex  <b>18</b> Construction Product Regulation (CPR) Declaration of Performance: DoP n° WPBEX0264 Certificate of Factory Production Control: 1119-CPR-13132, 13133, 13134
<b>EN 13707</b> Membrane composed of modified elastomeric bitumen and non-woven polyester reinforcement. Topside is covered by fine sand and the underside is covered by thermofusible film. Dimensions 8 m x 1 m x 4,4 mm. Applied by torch-on techniques, must not be applied with hot bitumen. Base, finishing layer or single layer.

Essential characteristics	Performances	Test standard	Harmonised standard
Classification for external fire exposure (note 1)	F <sub>ROOF</sub> (t1, t2, t3, t4)	EN 13501-5	EN 13707:2004 + A2:2009
Reaction to fire	E	EN 13501-1	
Watertightness	Conform	EN 1928-A	
Tensile strength: longitudinal (N/50 mm)	960 ± 20 %	EN 12311-1	
Transversal (N/50 mm)	960 ± 20 %		
Elongation at maximum tensile strength: Longitudinal (%)	55 ± 15 abs	EN 12311-1	
Transversal (%)	55 ± 15 abs		
Resistance to root penetration	NPD	EN 13948	
Resistance to static loading Method A is on smooth substrate (kg)	≥ 20	EN 12730-A	
Resistance to impact: Method A is on rigid substrate (mm)	≥ 1250	EN 12691-A	
	Method B is on smooth substrate (mm)	NPD	
Resistance to tearing (nail shank) (N)	250 -0/+50	EN 12310-1	
Joint properties: peel resistance (N/50 mm)	100 -0/+50%	EN 12316-1	
	shear resistance (N/50 mm)	800 -0/+50%	
Artificial ageing behaviour: flow resistance at elevated temperature (24 weeks) (°C)	90 -0/+5	EN 1296	
	flexibility at low temperature	NPD	EN 1110
	UV radiation, elevated temperature and water	NPD	EN 1109
Flexibility at low temperature (°C)	≤ -16	EN 1297	
Dangerous substances (note 2 and 3)	Complies	-	

NPD = No Performance Determinated

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 BOND
Flow resistance at elevated temperature (EN 1110)	≥ 110 °C
Dimensional stability (EN 1107-1)	≤ 0,5 %
Resistance to static loading - Method B is on rigid substrate (EN 12730-B)	≥ 20 kg