

SOPRA[®] STAR FLAM

SOPRA[®] STAR FLAM is a weldable waterproofing membrane, consisting of a polyester / glass composite reinforcement and elastomeric bitumen.

The topside is self-protected by a reflective white film and the underside is protected by a thermofusible film.

Field of use

SOPRA[®] STAR FLAM is used in sealing roofs with a 2% minimum slope as the finish coat of a two-ply system. Used exclusively outdoors.

The uses are those described in the **SOPREMA** Installation Specifications in force.

Constituents

		SOPRA [®] STAR FLAM
Reinforcement		Polyester / glass composite
Binder		Elastomeric bitumen: blend of selected bitumen and SBS* thermoplastic polymers
Thickness	On tape	3.5 mm (-5%; +5%)
Topside		Reflective white film
Underside		Thermofusible film
Width of overlap		≥ 100 mm
* according to Directive Particulière UEAtc pour l'agrément des revêtements d'étanchéité en bitume élastomères SBS (UEAtc Special Directive for approval of SBS elastomeric bitumen waterproof coverings)		

Packaging

		SOPRA [®] STAR FLAM
Dimensions of the roll		10 m x 1 m
Weight of the roll		Approximately 41 kg
Storage		Upright on pallet in plastic wrapping – Do not stack
A roll may include 1 section. In this case, the shortest length is at least 2 metres and the total length is equal to the rated length. The rolls must be stored on a flat support. During bad weather or low temperatures, installation of the material can be facilitated by protecting it against moisture and storing it at no less than +2°C for at least 5 h before installation.		

Characteristics (apart from CE marking)

	Reflectance	Emissivity	SRI (Solar Reflectance Index) ASTM E 1980-01
SOPRA® STAR FLAM	0.78	0.89	96

Implementation

SOPRA® STAR FLAM is installed exclusively by propane torch welding. Refer to the Installation Specifications.

The SOPRA® STAR FLAM membrane must never be glued to hot bitumen.

Special Indications

Hygiene, Health and Environment:

The product does not contain any hazardous substance. It meets the health, safety and environment requirements. For any additional information, refer to the Safety Data Sheet.


Traceability:

Product traceability is assured by a manufacturing code present on the packaging.

Quality Control:

SOPREMA has always attached the highest importance to the quality of its products and to respect for the environment and people. This is why we apply an **ISO 9001** and **ISO 14001** certified integrated quality and environment management system.

CE MARKING

 0620		
SOPRA® STAR FLAM SOPREMA 14 Rue de Saint-Nazaire – CS 60121 67025 STRASBOURG Cedex 10 DOP No. WPBBE181 Factory Production Control Certificate: 0620-CPR-81252/01		
EN 13707 Polyester / glass composite reinforcement and elastomeric bitumen based membrane, white film on the topside and thermofusible film on the underside; dimensions 10 m x 1m x 3.5 mm. Installed exclusively by torch welding.		
Essential Characteristics	Performance	Specification Harmonized Technique
External fire resistance (Note 1)	F_{ROOF} (t1,t2,t3,t4)	EN 13707:2004 + A2:2009
Reaction to fire	NPD	
Watertightness	Complies	
Tensile properties	900 ± 20% 800 ± 20% 45 ± 15 55 ± 15	
Root resistance	NPD	
Static loading resistance (kg)	NPD	
Dynamic loading - Method A (mm)	1500	
Resistance to tearing LxT (N)	250 -0% / +50%	
Joint strength	100-0% / +50% 500-0% / +50%	
Durability	100°C - 20°C ± 10°C	
- Creep resistance at high temperature after ageing		
- Flexibility at low temperature after ageing		
Flexibility at low temperature	≤ - 25°C	
Dangerous substances (Notes 2 & 3)	Complies	

Note 1: Since the fire behaviour of a roof depends on the entire system, no performance can be declared for the product alone.

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

Note 3: Since there is no harmonized European test method available, verification and declaration of leaching / composition must be made according to national rules in force in the place of use.

Additional Characteristics	SOPRA® STAR FLAM
	VLF *
Creep resistance at high temperature (EN 1110)	100°C
Dimensional stability (EN 1107-1)	0.2%

*Manufacturer's Limiting Value: limiting value that could be provided under the Quality System.