

ELASTOPHENE FLAM S3 AR

Description

ELASTOPHENE FLAM S3 AR is a flexible SBS elastomeric bitumen waterproofing membrane with glass fleece reinforcement. The topside is protected by slate chippings and the underside by a thermofusible film.

Composition

	ELASTOPHENE FLAM S3 AR
Reinforcement	Glass fleece (95 g/m ²)
Binder	Elastomeric bitumen*: blend of selected bitumen and SBS thermoplastic polymers
Thickness	3,00 mm (-5%) on overlap 3.7 mm on slates
Weight	about 4,8 kg/m ²
Topside	Slate chippings
Underside	Thermofusible film
Overlap	≥ 6 cm

*According to UEAtc directives concerning the normalization of waterproof elastomeric SBS bitumen coverings.

Characteristics

	ELASTOPHENE FLAM S3 AR	
	MDV ¹	MLV ²
Tensile Strength (EN 12311-1)		
-longitudinal	550 N/ 5cm	350 N/ 5cm
-transverse	450 N/ 5cm	250 N/ 5cm
Elongation (EN 12311-1)		
-longitudinal	3 %	≥ 2 %
-transverse	3 %	≥ 2 %
Low temperature flexibility (EN 1109)	No observed cracks at - 20°C	No observed cracks at - 16°C
Flow resistance at high temperature (EN 1110)	105°C	100°C
Dimensional stability at 80°C (EN 1107-1)	0,1 %	0,1 %

⁽¹⁾MDV = Manufacturer's determined value: An arithmetic mean value of a minimum number of independent measurements.

⁽²⁾MLV = Manufacturer's limiting value: Minimum or maximum 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 %.

Packaging

ELASTOPHENE FLAM S3 AR	
Roll dimensions	8 m x 1 m
Roll weight	About 38 kg
Standard colours	Black, grey, Matisse brown, Gaugin red, Véronèse green, Cézanne sienna, Chagall grey, VanGogh ochre.
Storage	Upright on pallet with plastic wrapping, protected against moisture

Roll lengths are given with a tolerance of $\leq 1\%$. Roll can be cut in two parts. In this case, the shortest length is 3 meters and the total length is equal to the nominal length.
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 $+ 2^{\circ}\text{C}$ ($+ 36^{\circ}\text{F}$) for at least 5 hours before installation.

User application

ELASTOPHENE FLAM S3 AR is to be used as a finishing layer in all two-ply elastomeric bitumen waterproofing systems.

All the applications are described in the French Standards DTU, Technical Guideline or Technical Approvals. For further details refer to specific technical information.

Installation

ELASTOPHENE FLAM S3 AR must be applied only by heat welding or torch-on techniques. Hot bitumen must not be used in the 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.

Quality control:

SOPREMA has always attached the highest importance to Quality Control.


For this reason, we operate an independently monitored Quality Assurance System in compliance with **BS EN ISO 9001: 2008**, certified by **BSI Management System**.



CE Marking

ELASTOPHENE FLAM S3 AR is a flexible membrane for roof waterproofing and complies with EN 13707, thereby bearing the CE standard marking.

General information concerning the CE marking, expressed in MLV, can be found below. For more information, please refer to the relevant Declaration of Conformity.

 CSTB 0679	
<p><u>ELASTOPHENE FLAM S3 AR</u> SOPREMA S.A.S. B.P. 60121 – 14, rue de St-Nazaire 67025 STRASBOURG CEDEX 1 06 Certificate of Factory Production Control 0679-CPD-0130 / 0679-CPD-0133 0679-CPD-0602 / 0679-CPD-0343</p>	
<p><u>EN 13707</u> Membrane composed of modified elastomeric bitumen and a glass fleece. Topside is protected with slate chippings and underside is covered with a thermofusible film. Dimensions : 10 m x 1m x 3.7 mm.</p> <p>Must not be applied with hot bitumen.</p> <p>Membrane is a cap sheet, cannot be used for green roofs.</p>	
Classification for external fire exposure (EN 13501-5)	NPD
Reaction to fire (EN 13501-1)	E
Tensile Strength in longitudinal direction (EN 12311-1)	250 N/ 5cm
Tensile Strength in transverse direction (EN 12311-1)	150 N/ 5cm
Elongation in longitudinal direction (EN 12311-1)	2 %
Elongation in transverse direction (EN 12311-1)	2 %
Low temperature flexibility (EN 1109)	- 16 °C
Flow resistance at high temperature (EN 1110)	100 °C
Watertightness (EN 1928)	Conform