

SOPRALENE FLAM UNILAY AR Fe

Description

SOPRALENE FLAM UNILAY AR Fe is a flexible sealing cap made of a non-woven polyester reinforcement and elastomeric bitumen. The top side is self-protected by slate chippings, while the underside is protected by a thermofusible film.

Composition

SOPRALENE FLAM UNILAY AR Fe contains fire-retardant additives for the fire rating Broof T3 cases defined in the test reports of Warringtonfiregent.

	SOPRALENE FLAM UNILAY AR Fe
Reinforcement	Non woven polyester (180 g/m ²)
Binder	Elastomeric bitumen*: blend of selected bitumen and SBS thermoplastic polymers
Nominal Thickness	4, 0 mm on overlapping side (-5 %) 4,7 mm (on slates)
Topside	Slate chippings
Underside	Thermofusible film
Width of overlapping side	Thermofusible film width 85 mm (±5)

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

Characteristics

	SOPRALENE FLAM UNILAY AR Fe	
	MDV ¹	MLV ²
Tensile Strength (EN 12311-1)		
-longitudinal	800 N/ 5 cm	550 N/ 5cm
-transversal	650 N/ 5 cm	500 N/ 5cm
Elongation with maximum strength (EN 12311-1)		
-longitudinal	40 %	30 %
-transversal	45 %	30 %
Resistance to nail tearing (EN 12310-1)		
-longitudinal	200 N	150 N
-transversal	200 N	150 N
Low temperature flexibility (EN 1109)	No cracks at - 20°C	No cracks at - 16°C
Flow resistance at high temperature (EN 1110)	105°C	100°C
Dimensional stability at 80°C (EN 1107-1)	0.3 %	0,5 %
Static puncture resistance (NF P 84-352)	25 kg (L4)	
Dynamic puncture resistance (NF P 84-353)	10 Joules (D2)	
FIT classification monolayer	F5 I4 T4	

⁽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

SOPRALENE FLAM UNILAY AR Fe	
Roll dimensions	8 m x 1 m
Roll weight	about 45 kg
Standard colours	Black, Grey, Matisse Brown, Gaugin Red, Véronèse Green, Cézanne Siena, Chagall Grey, Van Gogh 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

SOPRALENE FLAM UNILAY AR is to be used as a monolayer waterproofing self-protected, without reported protection.

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

Installation

SOPRALENE FLAM UNILAY 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.

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

SOPRALENE FLAM UNILAY 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

SOPRALENE FLAM UNILAY AR Fe

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06

Certificate of Factory Production Control
0679-CPD-0130 / 0679-CPD-0133
0679-CPD-0393 / 0679-CPD-0343

EN 13707

Membrane composed of modified elastomeric bitumen and composite polyester/glass reinforcement. Topside is protected with slate chippings and underside is covered with a thermofusible film.
Dimensions: 8 m x 1 m x 4,7 mm.

Must not be applied with hot bitumen.

Top layer or single layer.

Classification for external fire exposure (EN 13501-5)	B roof t 3
Reaction to fire	E
Tensile Strength in longitudinal direction (EN 12311-1)	550 N/ 5cm
Tensile Strength in transversal direction (EN 12311-1)	500 N/ 5cm
Elongation in longitudinal direction (EN 12311-1)	30 %
Elongation in transversal direction (EN 12311-1)	30 %
Static puncture resistance (EN 12730)	20 kg
Choc resistance (EN 12691)	2000 mm
Low temperature flexibility (EN 1109)	-16°C
Flow resistance at high temperature (EN 1110)	100 °C
Flexibility (EN 1109) after ageing in compliance with EN 1296	0°C
Watertightness (EN 1928)	Conform
Shear resistance of joints (EN 12317-1)	500 N / 5cm