



WATERPROOFING

APPLICATIONS

ROOFING

SOPRALENE FLAM 180 AR

TECHNICAL DATA SHEET APTDS-E-153-04

DESCRIPTION

SOPRALENE FLAM 180 AR is a SBS elastomeric bitumen waterproofing membrane with a non-woven reinforcement. The topside is protected by granules and the underside is covered by a thermofusible film.

USER APPLICATION

SOPRALENE FLAM 180 AR is used as a finishing layer in all two-ply elastomeric bitumen waterproofing systems. All the applications are described in Technical Approvals or **SOPREMA's** Technical Guidelines in force.

COMPOSITION

Composition	SOPRALENE FLAM 180 AR
Reinforcement	Non-woven polyester
Binder	Elastomeric bitumen : blend of selected bitumen and SBS* thermoplastic polymers
Thickness	4.0 mm on granules
Topside	Granules
Underside	Thermofusible film
Overlap	≥ 75 mm

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

PACKAGING

Packaging	SOPRALENE FLAM 180 AR
Dimensions of the roll	8 m x 1 m
Roll weight	about 38 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

Roll lengths are given with a tolerance of $\leq 1\%$. 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.

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.

INSTALLATION

SOPRALENE FLAM 180 AR must be applied only by heat welding or torch-on techniques. Hot bitumen must not be used in the bonding process.





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CHARACTERISTICS

Essential characteristics	Performances	Harmonised Technical Specification
Reaction to fire	E	EN 13707:2004 + A2:2009
Watertightness	Conform	
Tensile properties : Tensile strength L x T (N / 50 mm) Elongation L x T (%)	≥ 550 x 400 30 x 30	
Resistance to static loading (kg)	20	
Resistance to impact (mm)	1000	
Resistance to tearing (N)	≥ 200	
Joint strength Peel resistance of joints (N / 50 mm) Shear resistance of joints (N / 50 mm)	NPD NPD	
Durability Flow resistance at elevated temperature after ageing	90°C	
Flexibility at low temperature	-16°C	
Dangerous substances (Notes 2 and 3)	Complies	

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 AR MLV*
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 %.

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.

