

SOPRALENE FLAM 180

SOPRALENE FLAM 180 is a SBS elastomeric bitumen waterproofing membrane with a non-woven polyester reinforcement. Both sides are covered by a thermofusible film.

User application

SOPRALENE FLAM 180 is used as first or second layer under protection in all two-ply elastomeric bitumen waterproofing systems. To be used outside only.

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

Composition

| | | SOPRALENE FLAM 180 |
|---|------------|---|
| Reinforcement | | Non-woven polyester |
| Binder | | Elastomeric bitumen : blend of selected bitumen and SBS* thermoplastic polymers |
| Thickness | On overlap | 2,9 mm (-5 % ; +5 %) |
| Topside | | Thermofusible film |
| Underside | | Thermofusible film |
| Overlap | | ≥ 60 mm |
| *According to UEAtc directives concerning the normalization of waterproof elastomeric SBS bitumen coverings | | |

Packaging

| | | SOPRALENE FLAM 180 | |
|---|--|---|----------------------|
| Dimensions of the roll | | Standard* 6 m x 1 m | Export 10 m x 1 m |
| Weight of the roll | | about 25 kg | about 35 kg |
| Storage | | Upright on pallet with plastic wrapping | |
| Roll lengths are given with a tolerance of ≤ 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. | | | |

*Prevents from the arduousness for roofers on worksite

Characteristics (outside CE marking)

| | SOPRALENE FLAM 180 |
|--|--------------------|
| Static puncture resistance (NF P 84-352) - with ELASTOPHENE FLAM 25 | ≥ 25 kg (L4) |
| Dynamic puncture resistance (NF P 84-353) - with ELASTOPHENE FLAM 25 | ≥ 20 J (D3) |
| FIT classification: - with ELASTOPHENE FLAM 25 AR | F5 I5 T4 |

Installation

SOPRALENE FLAM 180 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.

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

| |
|---|
|  1119 |
| SOPRALENE FLAM 180 SOPREMA 14 rue de Saint-Nazaire – CS 60121 67025 STRASBOURG cedex 06 Construction Product Regulation (CPR) Declaration of Performance : DoP n° WPBFR229 Certificate of Factory Production Control : 1119-CPR-13132, 13133, 13134 (EN 13707). Certificate of Factory Production Control : 1119-CPR-13136, 13137, 13138 (EN 13969). |
| EN 13707 / EN 13969 Membrane composed of modified elastomeric bitumen and non-woven polyester reinforcement. Both sides are covered by a thermofusible film. Dimensions : 6 m or 10 m x 1 m x 2,9 mm. Applied by torch-on techniques. First or second layer under protection. |

| Essential characteristics | Performances | Harmonised Technical Specification |
|--|---------------------------------------|---|
| Classification for external fire exposure (Note 1) | F_{ROOF} (t1,t2,t3,t4) | EN 13707:2004 + A2:2009 |
| Root resistance | NPD | |
| Peel resistance of joints (N / 50 mm) | NPD | |
| Durability Flow resistance at elevated temperature after ageing | 90°C | EN 13969:2004 |
| Durability Watertightness after ageing | Conform | |
| Resistance to static loading – Method B (kg) | 15 | EN 13707:2004 + A2:2009 EN 13969:2004 |
| Reaction to fire | E | |
| Watertightness | Conform | |
| Resistance to impact – Method A (mm) | 1000 | |
| Shear resistance of joints (N / 50 mm) | ≥ 400 | |
| Flexibility at low temperature | -16°C | |
| Tensile properties : Tensile strength L x T (N / 50 mm) Elongation L x T (%) | ≥ 550 x 400 30 x 30 | |
| Resistance to static loading – Method A (kg) | 20 | |
| Resistance to tearing (N) | ≥ 200 | |
| 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 |
|---|--------------------|
| | 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 % | |