

PRODUCT DATA SHEET

TECHNICAL DATA SHEET 701802107ME002
SUPERSEDES: TECHNICAL DATA SHEET EFORT20_190507SMEIE001

DESCRIPTION

ELASTOFORT® 180 is a series of reinforced membranes specially designed for various waterproofing applications. ELASTOFORT® 180 line of products are manufactured from elasto-plastomeric compound combined with non-woven polyester reinforcement. This select combination provides distinguished physical and mechanical properties to the finished membrane that includes thermal stability of the bitumen compound coupled with high puncture, tear and tensile strength.

STORAGE & HANDLING

Rolls must be stored in upright position, with selvedge side on top to prevent damage. Store rolls in a clean dry location and cover as necessary to protect from any environmental impact such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of ELASTOFORT® 180.

USER APPLICATION

ELASTOFORT® 180 can be used in single ply or 2-ply, vertically and horizontally in substructure and superstructure applications. All the application guidelines are described in SOPREMA® Technical Manuals in force.

INSTALLATION



HEAT WELDED

ACCESSORIES

SOPRADERE HT - SOLVENT BASED PRIMER

AQUADERE HT - WATER BASED PRIMER

SOPRABOARD SF - PROTECTION BOARD

SOPRAMASTIC LM - BITUMINOUS MASTIC

ADVANTAGES

- **Versatility:** Designed to fit perfectly to the different user applications
- **Reliability:** Proprietary blend offering high resistance to weathering
- **Durability:** Superior waterproofing protection after aging
- **Reflectivity:** Reduction of heat absorption by the system
- **Sustainability:** Contribution to LEED
- **Warranty:** Comprehensive warranty option programs
- **Recyclability:** Product composition can be recycled

SHELF LIFE

Material will have a 12 months shelf life if stored in a dry and properly ventilated area, sheltered from the elements or any harmful substances. Material shall be adequately protected from environmental impacts to the properties or the performance of the membrane.

HEALTH, SAFETY & ENVIRONMENT

The product does not contain any substance likely to be detrimental to health or to the environment and complies with generally admitted Health & Safety Requirements. For further information please refer to relevant Material Safety Data Sheet (MSDS).

TRACEABILITY

Product traceability is ensured through a manufacturing identification present on the packaging.

QUALITY MANAGEMENT

SOPREMA always recognises as a high level of importance the quality of the products, the environment and safety. For this reason, we operate independently monitored Quality Management Systems in line with ISO 9001:2015.



COMPOSITION & PACKAGING

ELASTOFORT® 180	
PROPERTY	4P20
Cold flexibility	-20 °C
PROPERTY	4P5
Cold flexibility	-5 °C
Reinforcement	180 g / m ²
Thickness	4.0 mm
Roll dimension	1 x 10 m
Roll weight	56 kg
Rolls per pallet	23 Rolls
Top face	Film
Underface	Thermofusible film

CONFORMITY	UEAtc MOAT: 31 - 1984 TESTED IN ACCORDANCE WITH ASTM D5147
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TECHNICAL PROPERTIES

PROPERTY	STANDARDS	ELASTOFORT® 180
Softening point (Bitumen mass)	ASTM D 36	> 130 °C
Penetration @ 25 °C (Bitumen mass)	ASTM D 5	25 - 35 dmm
Tensile strength, MD / CMD	EN 12311 - 1	900 / 700 N / 5 cm
Elongation, MD / CMD	EN 12311 - 1	45 / 50 %
Tensile strength, MD / CMD	ASTM D 5147	15 / 11 KN / m
Elongation, MD / CMD	ASTM D 5147	55 / 55 %
Flow resistance at elevated temp.	EN 1110	105 °C
Dimensional stability	EN 1107	≤ 0.5 %
Resistance to static puncture	EN 12730	L ₄ (25 kg) *
Resistance to dynamic puncture	UEAtc	I ₄ **
Compound stability @ 120 °C	ASTM D 5147	No failure
Tear strength, MD / CMD	ASTM D 5147	550 / 400 N
Resistance to tearing, MD / CMD	EN 12310 - 1	200 / 200 N
Puncture resistance	ASTM E 154	850 N
Shear resistance of joints	EN 12317 - 1	≥ 600 N / 5 cm
Fatigue resistance, 500 cycles @ 0 °C	UEAtc MOAT 27, 30, 31	Pass
Creeping resistance @ 70 °C on a substrate inclined at 45° for 192 hrs.	UEAtc MOAT 27, 30, 31	No flow
Ageing under UV for 2008 hrs	UEAtc MOAT 27, 30, 31	No deterioration
Durability, Watertightness	EN 13969 : 2004	Conform
Water resistance for 28 days	UEAtc MOAT 27, 30, 31	Reinforcement does not separate from coating
Water tightness @ 24 hrs.	EN 1928 : 2000	> 60 kpa
Water absorption @ 24 hrs.	ASTM D 570	< 0.5 %
Resistance to impact	EN 12691	> 1000 mm
Chemical resistance	UEAtc MOAT 27, 30, 31	Resistant
Resistance to hydrostatic pressure	ASTM D5385	> 70 m

Note: All products manufactured by SOPREMA comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

Data is represented by average values, unless noted otherwise.

All values are nominal, tolerance ± 20 %

* L₄ for -5 & -10 °C cold flexibilities

** I₄ for -5 & -10 °C cold flexibilities

TESTING AND CERTIFICATIONS



SUSTAINABILITY AND ENVIRONMENT



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