

## Technical Data Sheet TOP/S

### Product Description / Use:

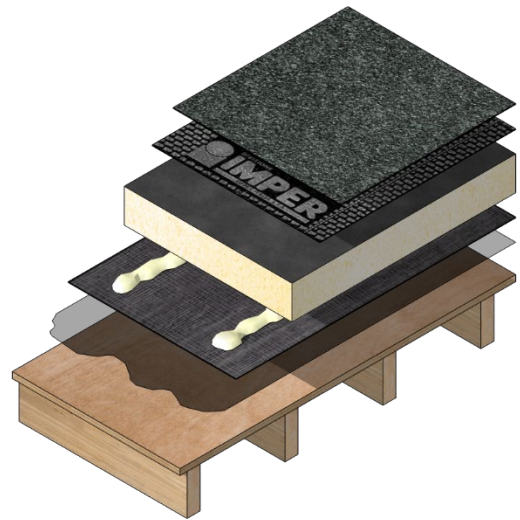
TOP/S is an APP modified bitumen polymer waterproofing membrane for use as a base layer under Paralon waterproofing systems including; Flat Roofs, Terraces, Green Roofs, Podiums, Car Parks and Bridge Decks, Tunnels, Foundations and Underground Structures.

The Paralon range of waterproofing membranes, may be used in new build and refurbishment applications and are suitable for applications in low temperature conditions. Paralon remains flexible at low temperatures and exhibits high resistance to thermal stress.

The pre-fabricated membranes of the TOP series are obtained by coextrusion of an elastoplastic bitumen-polymer blend. TOP/S contains a non-woven polyester reinforcement with continuous filament and dimensional stability controlled with longitudinally positioned mineral fibres.

The precise formulation and the particular dispersion of the distilled bitumens and polymers ensure good mechanical performance and ageing.

The upper side is finished with a sanded surface, the lower side of the membrane, is covered by the TERMOTENE thermal cut-off film, which improves application and adhesion to the substrate being waterproofed.



TOP/S contains no asbestos, tar or other dangerous substances.

### Certification:



NSAI



### System Fire Testing:

Classification Standard BS EN 13501-5: 2016  
Test Standard: CEN/TS 1187:2012

warringtonfire

Determination of external fire performance is a system test which will be influenced by the components within the roofing system.

Whilst TOP/S can be included in compliant B<sub>ROOF (t4)</sub> Paralon systems, always check with MOY Technical Services for the very latest information on fire testing carried out.



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### Technical Specification:

Specifications	EN Standards	Unit of Measure	Tolerances <sup>(1)</sup>	TOP/S
Roll dimensions	1848-1	m	≥	10 x 1 (-1%)
Thickness	1849-1	mm	±5%	3
Mass per unit area	1849-1	kg/m <sup>2</sup>	±10%	-
Watertightness	1928-B	kPa	≥	60
Cold flexibility	1109	°C	≤	-10
Flow resistance at elevated temperature	1110	°C	≥	+120
L/T tensile strength	12311-1	N/5cm	±20%	700/450
L/T tensile elongation	12311-1	%	±15	40/45
L/T dimensional stability	1107-1	%	≤	0.25
Static puncture	12730	kg	≥	-
Dynamic puncture	12691-B	mm	≥	-
L/T tear resistance	12310-1	N	±30%	150/160
Joint peel resistance	12316-1	N/5cm	±20 N	-
Joint cut resistance	12317-1	N/5cm	±20%	-
Durability after ageing:				
• Cold flexibility	1296-1109	°C	+15°C	-
• Flow resistance at elevated temperature	1296-1110	°C	-10°C	+120
• UV Ageing	1297	-	-	-
• Watertightness	1296-1928	kPa	≥	60
• Chemical resistance	-	-	-	NPD <sup>(2)</sup>
• L/T tensile strength	12311-1	N/5cm	±20%	600/350
• L/T tensile elongation	12311-1	%	±15	35/40
Steam permeability	1931	μ	≥	20,000
Root resistance	13948		-	NPD <sup>(2)</sup>
External fire behaviour	13501-5	EC <sup>(3)</sup>	-	NPD <sup>(4)</sup>
Fire reaction	13501-1	EC <sup>(3)</sup>	-	F

#### Notes:

- (1) In compliance with the applicable AISPEC/SITEB-MBP Guidelines.
- (2) Characteristic not determined because it is not relevant for use.
- (3) Euroclass.
- (4) Determination of external fire performance is a system test which can be influenced by system components, thus performance for each individual product cannot be given.

#### Delivery form:

Rolls.

#### Storage:

Rolls must be stored in their original package, in vertical position and under cool and dry conditions between temperatures of +5 °C and +35 °C. They must be protected from direct sunlight, rain, snow and ice.

#### Shelf life:

They can be stored for up to 24 months in cool, dry conditions.



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**Safety:**

Safety precautions to be taken when using this product is given in the Safety Data Sheet.

**Disposal:**

Information for this product is given in the Safety Data Sheet.

MOY Materials Ltd has taken care to ensure that the information provided in the literature is correct and up to date. However, it is not intended to form any part of a contract or provide a guarantee. Purchasers/intending purchasers should contact MOY Technical to check whether there have been any changes to the information since publication of the literature. Please ensure you have read the hazard labels and material safety data sheet before using this product.