

TOP S

Nature of product

The prefabricated membranes of the TOP S series are obtained by coextrusion of an elastoplastomeric bitumen-polymer blend, with a non-woven polyester reinforcement with continuous filament with dimensional stability controlled with longitudinally positioned mineral fibres. The precise formulation and the particular dispersion of distilled bitumens and polymers determine good mechanical performance and ageing. They are produced in the 4 mm thick version, black, powdered, and in the slated version weighing 4.5 kg/m² (ARD/S).

The black version can also be supplied in the TEXTENE® finish version, consisting of a layer of preformed film-textured polymer fibres, which gives the product a high added value, improving its durability and appearance. The TEXTENE® finishing treatment, in place of the normal talc-treated finish, also allows greater cleaning during laying operations with lower "environmental impact" in terms of the release of powdery substances, and can also be covered with compatible protective paints. In fact, the TEXTENE® finish improves the application and the adhesion of the protective treatments of waterproof membranes, increasing the duration of both the coating and the waterproofing layers themselves. The lower side of all the membranes of the TOP S series, instead, is covered by the TERMOTENE thermal cutoff film which improves application and adhesion to the substrate to be waterproofed.

The membranes of the TOP S series are produced in rolls, taped and accompanied by a Quality Control Certificate. They comply with the requirements for CE marking where required. They do not contain asbestos, tar, or other dangerous substances.

Intended use

TOP S membranes are suitable for the creation of waterproofing works of various types. Moreover, with respect to the use on roofs and in foundations, its use is dedicated with reference to the following scheme ⁽¹⁾.

To identify the systems that can be obtained, consult the Technical Services of IMPER ITALIA srl.

PRODUCTS	FIELDS OF USE ⁽¹⁾								
	Roofing (EN 13707)						Under-tile (EN 13859-1)	Steam control (EN 13970)	Foundations (EN 13969)
	Exposed			Roof gardens	Under heavy protection				Multi-ply
	Single-ply	Multi-ply		Root-resistant	Single-ply	Multi-ply			
		Upper	Lower						
TOP S 4		•	•			•			•
TOP ARD/S 4.5 kg/m²		•					•		

⁽¹⁾ In compliance with the applicable AISPEC/SITEB-MBP Guidelines.

Application procedure

TOP membranes are flame-installed or, only for versions with polyester reinforcement, with mechanical fixing. The application methods are a determining factor capable of characterising the performance of the waterproof covering itself. The membranes of the TOP S series are easy to apply using the normal equipment consisting of a propane gas burner, a round-shaped trowel and a blade. In general terms, we remind you to carry out thorough cleaning of the substrate followed by priming treatment with IMPERTENE PRIMER, applied with a long-handled brush. The membranes of the TOP S series will be applied (in adherence, semi-adhesion or independence, depending on the type of substrates and the stratification provided) with the aid of the flame of a propane torch. Particular care must be given to performing of sealing between the sheets always laid with staggered joints; the lateral joints must be installed with overlap of $8 \div 10$ cm and the end joints with overlapping of $12 \div 15$ cm. It is advisable to walk on the coat during the application phases, with shoes with a flat sole to avoid unsightly prints on the upper side of the membranes. For correct and detailed documentation, as well as to identify the most effective intervention solutions in all circumstances, we recommend consulting the Technical Services of IMPER ITALIA srl which are in any case available for the consultation of particular problems as well as to provide all the assistance necessary for the best use of these materials.

TECHNICAL SPECIFICATIONS ⁽¹⁾

Specifications	EN Standards	Unit of Measure	Tolerances ⁽¹⁾	TOP S	
				4	ARD/S ⁽²⁾
Roll dimensions	1848-1	m	≥	10 x 1 (-1%)	
Thickness	1849-1	mm	±5%	4	-
Mass per unit area	1849-1	kg/m²	±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 ⁽³⁾	40 / 45	
L/T dimensional stability	1107-1	%	≤	0.25 / 0.25	
Static puncture	12730	kg	≥	15	-
Dynamic puncture	12691-B	mm	≥	1000	-
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 aging:					
• Cold flexibility	1296-1109	°C	+15°C	-	
• Flow resistance at elevated temperature	1296-1110	°C	-10°C	120	
• UV Ageing	1297	-	-	Passes the test	
• Watertightness	1296-1928	kPa	≥	60	
• Chemical resistance	-	-	-	NPD ⁽⁴⁾	
• L/T tensile strength	12311-1	N/5cm	±20%	600 / 350	
• L/T tensile elongation	12311-1	%	±15 ⁽³⁾	35 / 40	
Steam permeability	1931	μ	≥	20,000	
Root resistance	13948		-	NPD ⁽⁴⁾	
External fire behaviour	13501-5	EC ⁽⁵⁾	-	Froof	
Fire reaction	13501-1	EC ⁽⁵⁾	-	F	

Notes: ⁽¹⁾ In compliance with the applicable AISPEC-SITEB-MBP Guidelines.

⁽²⁾ Upper finish in slate flakes standard colour Natural grey.
Other colours upon request Red, Green.

⁽³⁾ ± 2 for Glass Mat reinforcements.

⁽⁴⁾ Characteristic not determined because it is not relevant for use.

⁽⁵⁾ Euroclass.

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Considerando le diverse situazioni d'impiego dei prodotti e l'intervento di fattori da noi non dipendenti (supporti, condizioni di esercizio, in osservanza delle prescrizioni, ecc.), non è possibile alla IMPER ITALIA srl assumere responsabilità in merito ai risultati ottenuti. Il progresso unito alla costante ricerca dei massimi livelli prestazionali possono apportare - nel tempo - modificazioni alle informazioni contenute in questo stampato, senza che la IMPER ITALIA srl debba darne preavviso a tutti gli interessati.

