

UNOSINT AV**Product Description**

The UNOSINT 4/25 AV and 5/25 AV prefabricated waterproofing membranes are obtained by coextrusion of an elastoplastic bitumen-polymer compound with a softening point of $\geq 150^{\circ}\text{C}$ and of a non-woven polyester reinforcement of continuous filament weighing $\geq 250 \text{ g/m}^2$ placed in the thickness of the membranes, in complete synergy with the same.

The products are suitable for waterproofing requiring high mechanical strength, considerable break elongation, resistance to puncturing and drilling; they are available in thicknesses of 4 and 5 mm.

The UNOSINT AV membranes feature the upper side with TEXTENE® finish consisting of a layer of preformed textured film polymer fibres that gives the finished product a high added value, improving its durability and appearance. The TEXTENE® finishing treatment replacing the normal talc-treated finish also allows for greater cleaning during laying operations and a lower "environmental impact" in terms of the release of powdery substances and can be covered with suitable coloured or metallised protective paints. In fact, the TEXTENE® finish improves the application and adherence of the protective treatments of waterproof membranes, increasing the duration of both the coating and of the waterproofing layers themselves.

A particular advantage derives from the possibility of applying the paints immediately after laying of the sheets with obvious benefits in the economic "coverage" of the application.

The lower side is instead TERMOTENE® treated for a more economical and safe application.

The membranes comply with the requirements for CE marking where required. They do not contain asbestos, tar or other dangerous substances.

Intended use

UNOSINT 4/25 AV and 5/25 AV membranes are particularly suitable for:

- waterproofing of roads, railways, overpasses
- waterproofing of foundations and underground structures
- demanding works where securing is necessary and where strenuous actions and/or substrate movement occur
- waterproofing of roofs (single-ply, multi-ply, exposed and under heavy protection systems)

Application procedure

The application methods are a determining factor capable of characterising the performance of the waterproof covering itself. In this regard, remember to carry out careful preparation and cleaning of the substrate followed by the priming treatment with a suitable primer (for this purpose consult the IMPER catalogue), with a consumption of $0.2\div 0.3 \text{ l/m}^2$ and in any case variable with the degree of porosity of the substrate itself. The membrane will be applied with the aid of a propane gas torch; particular care must be taken over the execution of the welds between the sheets always laid and staggered joints: the side joints will be made with overlapping of $8 \div 10 \text{ cm.}$, the end joints with overlapping of $12\div 15 \text{ cm.}$ 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 S.r.l. that 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

Specifications	EN Standard	Unit of Measure	Tolerance ⁽¹⁾	UNOSINT AV	
				UNOSINT 4/25 AV	UNOSINT 5/25 AV
Roll dimensions	1848-1	m	≥	10 x 1 (-1%)	
Straightness	1848-1	mm	20 mm x 10 m	0	
Thickness	1849-1	mm	±5%	4	5
Mass per unit area	1849-1	kg/m ²	±10%	4	5
Colour	-	-	-	Black	
Watertightness	1928-B	kPa	≥	500	
Cold flexibility	1109	°C	≤	-15	
Flow resistance at elevated temperature	1110	°C	≥	140	
L/T tensile strength	12311-1	N/5cm	±20%	900 / 900	1000 / 950
L/T tensile elongation	12311-1	%	±15	40 / 40	
L/T dimensional stability	1107-1	%	≤	0.5 / 0.5	
Static puncture	12730/B	kg	≥	35 ⁽⁶⁾	
Dynamic puncture	12691/B	mm	≥	1000	1200
L/T tear resistance	12310-1	N	±30%	200 / 200	250 / 250
Joint peel resistance	12316-1	N/5cm	±20	NPD ⁽²⁾	
Joint cut resistance ⁽⁵⁾	12317-1	N/5cm	±20%	-	
Durability after aging:					
• Cold flexibility	1296-1109	°C	+15 °C	-10	
• Flow resistance at elevated temperature	1296-1110	°C	-10 °C	140	
• UV Ageing	1297	-	-	Passes the test	
• Watertightness	1296-1928	Kpa	≥	500	
• Chemical resistance	-	-	-	NPD ⁽²⁾	
• L/T tensile strength	12311-1	N/5cm	±20%	NPD ⁽²⁾	
• L/T tensile elongation	12311-1	%	±15%	NPD ⁽²⁾	
Ozone resistance	UNI 8202/28	-	-	Passes the test	
Root resistance	13948	-	-	Passes the test ⁽³⁾	
External fire behaviour	13501-5	EC ⁽⁴⁾	-	Froof	
Fire reaction	13501-1	EC ⁽⁴⁾	-	E	

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

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

(3) With specific Root-resistant application.

(4) Euroclass

(5) Declared value or break outside the joint

(6) With reference to the system created with SINTOPLENE 3 AV

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Considering the different situations of use of the products and the intervention of factors that do not depend on us (substrates, operating conditions, in compliance with the requirements, etc.), it is not possible for IMPER ITALIA srl to assume responsibility for the results obtained. Progress combined with the constant search for the highest levels of performance can necessitate - over time - changes to the information contained in this publication, without IMPER ITALIA srl having to inform all interested parties.



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