

SINTOPLENE 3 AV



Product Description

The SINTOPLENE 3 AV waterproofing membrane is obtained by coextrusion of an elastoplastomeric bitumen-polymer compound with a softening point at 150°C (ASTM D36) and of a reinforcement of a non-woven polyester reinforcement from a continuous filament weighing 120 g/m² placed in the thickness of the membrane, in complete synergy with the same.

The SINTOPLENE 3 AV membrane is produced in rolls, taped and accompanied by a Quality Control Certificate and has a black, talc-treated upper surface.

The lower surface of the membranes is instead coated with the TERMOTENE film which facilitates application and improves the adhesion of the membrane to the substrate to be waterproofed.

SINTOPLENE 3 AV complies with the requirements for CE marking where required. It does not contain asbestos, tar or other dangerous substances.

Designated use

The SINTOPLENE 3 AV membrane is particularly suitable for:

- lower layer in waterproofing systems for road, railway and overpass works, combined with the UNOSINT 4/25 AV membrane as the upper layer.
- waterproof membranes for roofs (lower layer of visible multilayer systems and under heavy protection).
- waterproofing foundations and earth-retaining walls

PRODUCTS	FIELDS OF USE ⁽¹⁾								
	Roofs (EN 13707)						Under-tile (EN 13859-1)	Steam control (EN 13970)	Foundations (EN 13969)
	Visible			Roof gardens	Under heavy-duty protection				Multi-ply
	Single-ply	Multi-ply		Root-resistant	Single-ply	Multi-ply			
		Upper	Lower						
SINTOPLENE 3 AV						•			•

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

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⁾	SINTOPLENE 3 AV
Roll dimensions	1848-1	m	\geq	10 x 1 (-1%)
Straightness	1848-1	mm	20 mm x 10 m	0
Thickness	1849-1	mm	$\pm 5\%$	3
Mass per unit area	1849-1	kg/m ²	$\pm 10\%$	3.25
Colour	-	-	-	Black
Watertightness	1928-B	kPa	\geq	500
Impermeability after extension	13897	%	\geq	5
Cold flexibility	1109	°C	\leq	-10
Flow resistance at elevated temperature	1110	°C	\geq	140
L/T tensile strength	12311-1	N/5cm	$\pm 20\%$	500 / 400
L/T tensile elongation	12311-1	%	± 15	40 / 40
L/T dimensional stability	1107-1	%	\leq	0.5 / 0.5
Static puncture ⁽²⁾	12730	kg	\geq	35
Dynamic puncture	12691	mm	\geq	900
L/T tear resistance	12310-1	N	$\pm 30\%$	150 / 150
Joint peel resistance	12316-1	N/5cm	$\pm 20 \text{ N}$	NPD ⁽⁴⁾
Joint cut resistance ⁽³⁾	12317-1	N/5cm	$\pm 20\%$	-
Durability after aging::				
• Cold flexibility	1296-1109	°C	+15 °C	-5
• Flow resistance at elevated temperature	1296-1110	°C	-10 °C	NPD ⁽⁴⁾
• UV Ageing	1297	-	-	Passes the test
• Watertightness	1296-1928	Kpa	\geq	500
• Chemical resistance	-	-	-	NPD ⁽⁴⁾
• L/T tensile strength	12311-1	N/5cm	$\pm 20\%$	NPD ⁽⁴⁾
• L/T tensile elongation	12311-1	%	$\pm 15\%$	NPD ⁽⁴⁾
Ozone resistance	UNI 8202/28	-	-	Passes the test
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) With reference to the system constituted by SINTOPLENE 3 AV + UNOSINT 4/25 AV

(3) Declared value or failure away from joints.

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

(5) Euroclass.

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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.

