

SINTOGUM



Nature of product

The prefabricated waterproofing membranes of the SINTOGUM series are obtained by coextrusion of a compound based on elastoplastomeric bitumen-polymer and a "non-woven" polyester reinforcement stabilised for the SINTOGUM PE and PE/ARD versions, or in reinforced glass mat for the SINTOGUM W. versions.

They are available with visible talc-treated side (PE and W, in thicknesses of 3 and 4 mm), or covered with slate flakes (ARD/PE, with a mass per unit area of 4 and 4.5 kg/m²).

The SINTOGUM PE versions can also be supplied with TEXTENE[®], finishing, consisting of a layer of preformed film-textured polymer fibres, which gives the finished product a high added value, improving its durability and appearance. The TEXTENE[®] finishing treatment, in place of normal talc-treatment, also allows greater cleaning during laying operations and a lower "environmental impact" in terms of the release of powdery substances, and is effectively recycled with suitable compatible paints: TEXTENE[®] finish in fact improves the application and the adhesion of the protective treatments of waterproof membranes, increasing the duration of both the painting and the waterproofing layers themselves. A particular benefit derives from the possibility of applying the paints immediately after laying of the sheets with obvious advantages in the economic "cover" of the application.

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

SINTOGUM membranes are produced in rolls, taped and equipped with Quality Control strips. They comply with the requirements for CE marking where required. They do not contain asbestos, tar or other dangerous substances.

Intended use

SINTOGUM membranes are suitable for the creation of waterproofing works of various types. Furthermore, with respect to use on roofs and in foundations, its use is indicated with reference to the following diagram ⁽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				
	Single-ply	Multi-ply		Root-resistant	Single-ply	Multi-ply		Multi-ply
Upper		Lower						
SINTOGUM W 3			•					
SINTOGUM W 4			•					
SINTOGUM PE 3			•			•		•
SINTOGUM PE 4	•	•				•		•
SINTOGUM ARD/PE 4	•					•		
SINTOGUM ARD/PE 4.5	•					•		

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

Application procedure

SINTOGUM 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. In general terms, we remind you to carry out careful preparation and cleaning of the substrate followed by the priming treatment with a suitable primer (applied with a long-handled brush, roller, spray), with a consumption of $0.2 \div 0.3/m^2$ 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 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. 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⁾	SINTOGUM				
				W 3	W 4	PE 3	PE 4	ARD/PE ⁽²⁾
Roll dimensions	1848-1	m	≥	10 × 1 (-1%)				
Thickness	1849-1	mm	±5%	3	4	3	4	-
Mass per unit area	1849-1	kg/m ²	±10%	-	-	-	-	4-4.5
Watertightness	1928-B	kPa	≥	60				
Cold flexibility	1109	°C	≤	-5				
Flow resistance at elevated temperature	1110	°C	≥	+120				
L/T tensile strength	12311-1	N/5cm	±20%	300/200	300/200	450/350	450/350	450/350
L/T tensile elongation	12311-1	%	±15 ⁽³⁾	2/2	2/2	40/40	40/40	40/40
L/T dimensional stability	1107-1	%	≤	-	-	0.25	0.25	0.25
Static puncture	12730	kg	≥	-	-	-	15	-
Dynamic puncture	12691-B	mm	≥	-	-	-	700	-
L/T tear resistance	12310-1	N	±30%	-	-	150/160	150/160	-150/160
Joint peel resistance	12316-1	N/5cm	±20 N	-	-	-	-	-
Joint cut resistance	12317-1	N/5cm	±20%	-	-	RFG ⁽⁵⁾	RFG ⁽⁵⁾	-
Durability after aging::								
• Cold flexibility	1296-1109	°C	+15°C	-				
• Flow resistance at elevated temperature	1296-1110	°C	-10°C	+110				
• UV Ageing	1297	-	-	-	-	-	Passes the test	Passes the test
• Watertightness	1296-1928	kPa	≥	60				
• Chemical resistance	-	-	-	NPD ⁽⁴⁾				
• L/T tensile strength	12311-1	N/5cm	±20%	-	-	-	-	400/300
• L/T tensile elongation	12311-1	%	±15 ⁽³⁾	-	-	-	-	35/35
Steam permeability	1931	μ	≥	20,000				
Root resistance	13948	-	-	NPD ⁽⁴⁾				
External fire behaviour	13501-5	EC ⁽⁶⁾	-	Froof				
Fire reaction	13501-1	EC ⁽⁶⁾	-	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) Failure away from joint.
 (6) 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.



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