



SINTOGUM SERIES

Product description

SINTOGUM Series prefabricated waterproofing membranes are produced by co-extruding a bitumen-polymer based elastomeric compound with a reinforcing mat consisting of non-woven stabilized polyester for SINTOGUM PE versions, and of reinforced glass tissue for SINTOGUM W versions.

SINTOGUM Series membranes are available in 3 and 4 mm thick versions with a talc-treated upper face, or with the upper face surfaced with slate chippings in three grades: 3.5, 4 and 4.5 kg/m².

For SINTOGUM PE versions, faces may also be treated with the proprietary TEXTENE[®] finish, a special preformed textured polymer fiber film which enhances the product, improving durability and appearance.

Specified instead of the standard talc treatment, the optional TEXTENE[®] finish ensures that membranes are cleaner to work with and release less dust into the environment. Membranes can also be overcoated with compatible paints. With the TEXTENE[®] finish, protective treatments adhere better and are more easily applied, increasing the service life of both the membrane and the protective coating. As a further benefit, paint coatings can be applied immediately after the membrane is installed, thus saving time and reducing labor costs.

The lower face is coated with TERMOTENE film, which facilitates application and improves membrane adhesion to the substrate to be waterproofed.

SINTOGUM Series membranes are supplied in strapped rolls, each accompanied by a Quality Control Certificate.

They comply with CE marking requirements where applicable, and contain no asbestos, tar or other dangerous substances.

Recommended uses

SINTOGUM Series membranes are ideal for waterproofing applications of all kinds. For membrane versions to be used in roofing, foundation and below-grade applications, see the table below.

For detailed documentation and guidance regarding product application, consult IMPER ITALIA S.p.A. Technical Services.

PRODUCT	USE ⁽¹⁾								
	Roofing (EN 13707)					Roofing underlay (EN 13859-1)	Vapor control (EN 13970)	Foundations (EN 13969)	
	Exposed		Roof gardens	Under heavy-duty protection					
	Single-ply	Multi-play		Root resistant	Single-ply	Multi-play		Multi-ply	
Cap sheet		Base ply							
SINTOGUM W3			•						
SINTOGUM W4			•						
SINTOGUM ARD/W 3.5						•			
SINTOGUM ARD/W 4	•					•			
SINTOGUM ARD/W 4.5	•					•			
SINTOGUM PE 3			•		•			•	
SINTOGUM PE 4	•	•			•			•	
SINTOGUM ARD/PE 3.5						•			
SINTOGUM ARD/PE 4	•					•			
SINTOGUM ARD/PE 4.5	•					•			

⁽¹⁾ In compliance with applicable standards and AISPEC-MBP guidelines.

SPECIFICATIONS ⁽¹⁾

Properties	EN standards	Unit of measure	Tolerances ⁽¹⁾	SINTOGUM					
				W 3	W 4	ARD/W ⁽²⁾	PE 3	PE 4	ARD/PE ⁽²⁾
Roll dimensions	1848-1	m	≥	10 x 1 (-1%)					
Thickness	1849-1	mm	±5 %	3	4		3	4	-
Mass	1849-1	kg/m ²	±10 %	-	-	3.5-4-4.5	-	-	3.5-4-4.5
Watertightness	1928-B	kPa	≥	60					
Cold flexibility	1109	°C	≤	-5					
Hot creep	1110	°C	≥	120					
Tensile strength, L/T	12311-1	N/5cm	±20%	300/200	300/200	300/200	450/350	450/350	450/350
Tensile elongation, L/T	12311-1	%	±15 ⁽³⁾	2/2	2/2	2/2	40/40	40/40	40/40
Dimensional stability, L/T	1107-1	%	≤	-	-	-	0.25	0.25	0.25
Puncture resistance - Static indentation	12730	kg	≥	-	-	-	-	15	-
Puncture resistance - Dynamic indentation	12691-B	mm	≥	-	-	-	-	700	-
Tear resistance, L/T	12310-1	N	±30%	-	-	-	120/130	120/130	-
Joint peel resistance	12316-1	N/5cm	±20 N	-	-	-	-	-	-
Joint cut resistance	12317-1	N/5cm	±20%	-	-	-	350/250 ⁽⁵⁾	-	-
Durability after aging:									
- Cold flexibility	1296-1109	°C	+15°C	-					
- Hot creep	1296-1110	°C	-10°C	110					
- UV weathering exposure	1297	-	-	-	-	-	-	Test passes	-
- Watertightness	1296-1928	kPa	≥	60					
- Chemical resistance	-	-	-	NPD ⁽⁴⁾					
- Tensile strength, L/T	12311-1	N/5cm	±20%	-	-	300/200	-	-	450/350
- Tensile elongation, L/T	12311-1	%	±15 ⁽³⁾	-	-	2/2	-	-	40/40
Water vapor permeability	1931	μ	≥	20.000					
Root resistance	LG Aispec		-	NPD ⁽⁴⁾					
Fire resistance	13501-5	EC ⁽⁶⁾	-	F Roof					
Fire reaction rating	13501-1	EC ⁽⁶⁾	-	F					

⁽¹⁾ In compliance with applicable standards and AISPEC-MBP guidelines.

⁽²⁾ Standard upper face color: natural slate gray.
Also available in red and green.

⁽³⁾ ±2 for glass tissue reinforcement.

⁽⁴⁾ Not determined, because not relevant for application.

⁽⁵⁾ Or failure away from joints.

⁽⁶⁾ Euroclass.

Methods of application

SINTOGUM Series membranes are designed for easy torch application, except for polyester-reinforced versions, which are secured using mechanical means.

Waterproofing performance will depend to a significant extent on application methods. Substrates must be thoroughly cleaned and treated with a suitable primer applied by brush, roller or spray at a rate of 0.2 to 0.3 liters/m². Primer coverage will depend on substrate porosity. SINTOGUM Series membranes are applied using a propane torch. Special care must be taken at joints, which must be overlapped. Membrane must be laid to allow side laps of 8 to 10 cm and end laps of 12 to 15 cm. For detailed documentation and guidance in selecting the most appropriate procedures for any job, consult IMPER ITALIA S.p.A. Technical Services, who will be happy to provide assistance and advice in designing special waterproofing systems and helping you make the best use of these materials.

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EXPORT OFFICE

Via Volta, 9
10071 Mappano Borgaro (Torino) Italy
tel. +39 011 222 54 99 – fax +39 011 262 16 21
e-mail: export@imper.it

IMPER ITALIA SpA

Via Volta, 8 - 10071 Mappano Borgaro (Torino) Italy