

SINTOFOIL ST WP



Description ⁽¹⁾

Synthetic waterproofing membrane produced by co-extruding a uniform highly flexible UV resistant elastomerised polyolefin alloy. The membrane features contrasting colours on its upper and lower faces, providing a signal layer so that any damage occurring during or after installation will be immediately apparent. SINTOFOIL ST WP membranes comply with CE marking requirements, if applicable.

Note: (1) The membrane is equipped with specific accessories, to be requested explicitly.

System certifications

QMS certification according to ISO 9001.

This product can contribute to acquiring points in terms of LEED accreditation.

Fields of application

Specific use

- Basins.
- Channels.
- Water storage tanks.
- Fish farming tanks.
- Drinking water storage and supply tanks and channels (DW type).

Note: Given the versatility and reliability of SINTOFOIL membranes, other applications can be developed with the assistance of the IMPER ITALIA srl – Rubberfuse Division Technical Services.

Application

Sintofoil membranes are designed for easy bonding with a hot air gun, as no adhesives or other materials of any kind are required. Design solutions and application methods are illustrated in the technical manual published by the RUBBERFUSE Division. Waterproofing systems employing SINTOFOIL membranes should be laid by installers authorised by RUBBERFUSE Division Technical Services.

TECHNICAL FEATURES ⁽²⁾

Features	EN Standards	U.M.	Tolerance	Values			
Standard thickness	1849-2	mm	(-5/+10%)	1,2	1,5	1,8	2,0
Density	1849-2	kg/m ²	(-5/+10%)	1,08	1,35	1,62	1,80
Tensile properties							
• Tensile strength L/T	12311-2	N/mm ²		15 / 15			
• Elongation at break L/T	12311-2	%		600 / 600			
Dimensional stability	1107-2	%		≤ 0,5			
Cold flexibility	495	°C		≤ -40 ⁽³⁾			
Tear resistance L/T	12310/1	N		330 / 240	450 / 400	550 / 500	650 / 600
Resistance to static loading	12236	kN		2,5		3	
Hail resistance	13583	m/s		≥ 30 ⁽⁵⁾			
Water tightness (0.5 MPa – 6h) ⁽⁴⁾	1928			Absolute			
Joint strength							
• Tensile strength	12317-2	N/cm		Compliant (specimen fails outside bond area)			
• Peeling	12316-2	N/cm		≥ 58			
Durability							
• Resistance to artificial UV light	12224-5000 h			No surface damage or significant changes in cold flexibility as per EN 495/5			
• Resistance to oxidation	14575			Compliant			
Resistance to algae and microorganisms	ISO 846 Level 2			Compliant			
Root resistance	13948			Passes the test			
Contact with drinking water (DW version)	Italian Ministerial Decree 26-04-93 n. 220 - O.J. no. 162 / 13-07-1993 and subsequent amendments			Suitable ⁽⁶⁾			

Notes: (2) Tolerances as per EN 13361 – EN 13362.

(3) Not tested at lower temperatures.

(4) Compliant with EN 13361 – EN 13362.

(5) Not tested at higher speeds.

(6) In the specific version ST WP DW

PRODUCTION STANDARDS

Thickness ^(*)	mm	1,2	1,5	1,8	2,0
Width	m	2,10	2,10	2,10	2,10
Length ^(*)	m	25	25	20	20
Standard colour ^(*)		Green / Black			

^(*) Different thicknesses, lengths and colours are available on demand and for minimum quantities.

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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.

