

**SINTOFOIL ST WPS****Description <sup>(1)</sup>**

Synthetic waterproofing membrane produced by co-extruding a uniform highly flexible 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. It is not UV resistant. SINTOFOIL ST WPS 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**

SINTOFOIL ST WPS membrane is recommended for waterproofing of underground structures:

- foundations;
- retaining walls;
- natural and artificial tunnels.

**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 <sup>(2)</sup>

Features	EN Standards	U.M.	Tolerance	Values		
Standard thickness	1849-2	mm	(-5/+10%)	1,5	1,8	2,0
Density	1849-2	kg/m <sup>2</sup>	(-5/+10%)	1,35	1,62	1,80
<b>Tensile properties</b>						
• Tensile strength L/T	12311-2/ISO 527	N/mm <sup>2</sup>		15 / 15		
• Elongation at break L/T	12311-2/ISO 527	%		600 / 600		
Dimensional stability	1107-2	%		≤ 0.5		
Cold flexibility	495	°C		≤ -40 <sup>(3)</sup>		
Tear resistance L/T	12310/1	N		450 / 400	550 / 500	650 / 600
Resistance to static loading	12730/B	kg		≥ 25		
Water tightness (60kPa-EN 1928)	1928			Absolute		
<b>Joint strength</b>						
• Tensile strength	12317-2	N/cm		Compliant (specimen fails outside bond area)		
• Peeling	12316-2	N/cm		≥ 58		
<b>Durability</b>						
• Waterproofing after thermal ageing	1926-EN 1928			Passes the test at 60 kPa		
Resistance to algae and microorganisms	ISO 846 Level 2			Compliant		
Root resistance	13948			Passes the test		

**Notes:** (2) Tolerances as per EN 13967.

(3) Not tested at lower temperatures.

## PRODUCTION STANDARDS

Thickness <sup>(*)</sup>	mm	1,5	1,8	2,0
Width	m	2,10	2,10	2,10
Length <sup>(*)</sup>	m	25	20	20
Colour <sup>(*)</sup>		Beige / Black		

<sup>(\*)</sup> 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.



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