

SINTOFOIL RT



Description

Synthetic waterproofing membrane produced by co-extruding a UV resistant elastomerised TPO/FPA thermoplastic olefin and flexible polypropylene alloy with a polyester net reinforcing mat. 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. Available in REFLECTA WHITE version with the upper side of the membrane (top) manufactured with the REFLECTA WHITE treatment, developed in mass in the entire layer that covers the top of the reinforcement. This process enhances the reflectance and emission features giving the waterproof covering Solar Reflectance Index (SRI) values that reach 102%. Also available in the following versions: SINTOFOIL RT/FR1^(a), SINTOFOIL RT/FR2^(b) SINTOFOIL RT/FR3^(c). SINTOFOIL RT membranes comply with CE marking requirements, if applicable.

Notes: ^(a) Sintofoil RT/FR1 – Behaviour to external fire (ENV 13501-5) Broof (t1).

^(b) Sintofoil RT/FR2 – Behaviour to external fire (ENV 13501-5) Broof (t2).

^(c) Sintofoil RT/FR3 – Behaviour to external fire (ENV 13501-5) Broof (t3).

System certifications

QMS certification according to ISO 9001.

Product certifications

Regulation CPR 305/2011/EU.

EELAB certification.

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

Fields of application

Specific use

- Mechanically retained waterproofing on exposed roofs.
- Waterproofing layers applied independently under heavy-duty fixed or movable protection:
 - roofing exposed to foot traffic;
 - inverted roofs.

Note: Given the versatility and reliability of SINTOFOIL membranes, other applications can be developed with the assistance of the IMPER ITALIA srl – 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 Imper Italia srl. Waterproofing systems employing SINTOFOIL membranes should be laid by installers authorised by Imper Italia Technical Services.

TECHNICAL FEATURES ⁽¹⁾

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%)	1,13	1,37	1,67	1,85
SRI – Solar Reflectance Index	ASTM Standard E1980	%		102 ⁽²⁾			
Tensile properties							
• Tensile strength	12311-2	N/5cm		1100			
• Elongation at break	12311-2	%		25			
Dimensional stability	1107-2	%		≤ 0,5			
Cold flexibility	495/5	°C		≤ -40 ⁽³⁾			
Tear resistance L/T	12310/1	N		500 / 550			
Water vapour permeability (resistance factor μ)	1931			50.000			
Resistance to static loading	12730/B	kg		≥ 25			
Resistance to impact	12691/B	mm		≥ 1200			
Hail resistance	13583	m/s		≥ 30 ⁽⁴⁾			
Water tightness (60kPa)	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	1297-5000 h			No surface damage or significant changes in cold flexibility as per EN 495/5			
Heat aging in area							
• Change in tensile strength	12311-2	Δ%		-5			
• Change in elongation at break	12311-2	Δ%		-5			
Wind load resistance (wind suction test) (UEAtc)							
• Mechanically retained system	Pa			≥ 6000			
Reaction to fire	13501-1			Class E ⁽⁵⁾			
Behaviour to external fire	13501-5			Broof (t1), (t2), (t3) ⁽⁶⁾			
Resistance to algae and microorganisms	ISO 846 Level 2			Compliant			
Root resistance	13948			Passes the test			

Notes: (1) Tolerances as per EN 13956 and/or UEAtc Directives.

(5) Internal report

(2) Reflecta White version.

(6) Consult Imper Italia for specific versions and feasible systems.

(3) Not tested at lower temperatures.

(4) Not tested at higher speeds.

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
Colour		Grey / Black			

(*) Different thicknesses and lengths 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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