

## SINTOFOIL RC



### Description

Synthetic waterproofing membrane produced by co-extruding a UV resistant elastomerised TPO/FPA thermoplastic olefin and flexible polypropylene alloy with a synthetic inorganic composite 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. Also 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%. SINTOFOIL RC membranes comply with CE marking requirements, if applicable.

### System certifications

QMS certification according to ISO 9001.

### Product certifications

Regulation CPR 305/2011/EU.

FM certification.

EELAB certification.

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

### Fields of application

#### Specific use

- Mechanically retained waterproofing for:
  - exposed roofs.
- Waterproofing layers applied independently under heavy-duty fixed or movable protection for:
  - roofing exposed to foot and vehicular 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 the Imper Italia. Waterproofing systems employing SINTOFOIL membranes should be laid by installers authorised by Imper Italia Technical Services.

TECHNICAL FEATURES <sup>(1)</sup>

Features	EN Standards	U.M.	Tolerance	Values			
<b>Standard thickness</b>	1849-2	mm	(-5/+10%)	1,2	1,5	1,8	2,0
<b>Density</b>	1849-2	kg/m <sup>2</sup>	(-5/+10%)	1,14	1,39	1,67	1,85
<b>SRI – Solar Reflectance Index</b>	ASTM Standard E1980	%		102 <sup>(*)</sup>			
<b>Tensile properties</b>							
• <b>Tensile strength L/T</b>	12311-2	N/50 mm		1100			
• <b>Elongation at break L/T</b>	12311-2	%		25			
<b>Dimensional stability</b>	1107-2	%		≤ 0,1			
<b>Cold flexibility</b>	495/5	°C		≤ -40 <sup>(2)</sup>			
<b>Tear resistance L/T</b>	12310/1	N		550/600			
<b>Water vapour permeability</b>	1931			50.000			
<b>Resistance to static loading</b>	12730/B	kg		≥ 25			
<b>Resistance to impact</b>	12691/B	mm		≥ 1200			
<b>Hail resistance</b>	13583	m/s		≥ 30 <sup>(*)</sup>			
<b>Water tightness (60kPa)</b>	1928			Absolute			
<b>Joint strength</b>							
• <b>Tensile strength</b>	12317-2	N/cm		Compliant (specimen fails outside bond area)			
• <b>Peeling</b>	12316-2	N/cm		≥ 58			
<b>Durability</b>							
• <b>Resistance to artificial UV light</b>	1297-5000 h			No surface damage or significant changes in cold flexibility as per EN 495/5			
<b>Heat aging in area</b>							
• <b>Change in tensile strength</b>	12311-2	Δ%		-5			
• <b>Change in elongation at break</b>	12311-2	Δ%		-5			
<b>Wind load resistance (wind suction test) (UEAtc)</b>							
• <b>Mechanically retained system</b>	Pa			≥ 6000			
<b>Reaction to fire</b>	13501-1			Class E			
<b>Resistance to algae and microorganisms</b>	ISO 846 Level 2			Compliant			
<b>Root resistance</b>	13948			Passes the test			
<b>Contact with drinking water (DW)</b>	Italian Ministerial Decree 26-04-93 n. 220 - O.J. no. 162 / 13-07-1993 and subsequent amendments			Suitable			

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

(3) Not tested at lower temperatures.

(\*) Not tested at higher speeds.

## PRODUCTION STANDARDS

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