

**SINTOPLAN RG FB****Description**

UV resistant synthetic PVC-P waterproofing membrane with a fibreglass reinforcement bonded on the lower face with nonwoven polyester fabric that makes it dimensionally stable.

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%.

**System certifications**

QMS (Quality Management System) certification according to ISO 9001.

Compliant with the requirements for the CE marking, as per standard EN 13956.

**Fields of application****Specific use**

Waterproofing membranes suitable to be applied in total adhesion on exposed roofs.

**Application**

SINTOPLAN RG FB membranes are laid in total adhesion by gluing with specific FB/SF ADHESIVE, with junctions welded by manual or automatic hot melting.

Specific accessories are available on demand to install the membranes.

See the specific documentation and contact IMPER ITALIA srl Technical Assistance for design solutions and application methods most appropriate for the different situations.

The waterproofing systems that use the SINTOPLAN RG FB membranes must be installed by skilled applicators, approved by IMPER ITALIA srl.

**Safety regulations**

Current regulations do not require a material safety data sheet for SINTOPLAN RG FB membranes. They do not contain asbestos, tar or other hazardous substances.

If used properly they do not damage the environment.

Not classified as hazardous goods for transport.

As a precautionary measure, it is recommended to ventilate the rooms when applying in confined areas.

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

Features	EN Standards	U.M.	Tolerance	Values			
Thickness	1849-2	mm	(-5/+5%)	1,2	1,5	1,8	2,0
Visible defects	1850-2			Compliant			
Straightness	1848-2	mm/10m		≤30			
Flatness	1848-2	mm		≤10			
Density <sup>(*)</sup>	1849-2	kg/m <sup>2</sup>	(-5/+10%)	1,68	2,05	2,45	2,72
<b>Tensile behaviour</b>							
• Tensile strength L/T	12311-2/B	N/mm <sup>2</sup>		≥11			
• Elongation L/T	12311-2/B	%		≥200			
Cold flexibility	495-5	°C		≤-30 <sup>(2)</sup>			
Dimensional stability L/T	1107/2	%		≤ 0.1			
Resistance to static loading <sup>(*)</sup>	12730/B	kg		≥20			
Resistance to impact <sup>(*)</sup>	12691/A	mm		≥500			
Resistance to impact <sup>(*)</sup>	12691/B	mm		≥2000			
<b>Hail resistance</b>							
• Rigid substrate	13583	m/s		≥17			
• Soft substrate	13583	m/s		≥25			
Water tightness (10kPa)	1928			Absolute			
Resistance to vapour passage	1931	μ		20000			
<b>Joint strength</b>							
• Tensile strength	12317-2	N/5 cm		≥800 (specimen fails outside bond area)			
• Peeling	12316-2	N/5 cm		≥250			
Resistance to artificial UV light	1297-5000 h			No surface crack (Degree 0)			
Resistance to fire	13501-1			Class F <sup>(3)</sup>			

**Notes:** (1) The values indicated refer to the TPO/FPA membrane without nonwoven polyester fabric backing, except for the values marked with an asterisk, that refer to the finished product. Tolerances as per EN 13956 and/or UEAtc Directives.

(2) Not tested at lower temperatures.

(3) Internal Report.

## PRODUCTION STANDARDS

Thickness <sup>(*)</sup>	mm	1,2	1,5	1,8	2,0
Width	m	2,05	2,05	2,05	2,05
Length <sup>(*)</sup>	m	25	20	15	15
Colour		Grey / Black			

(\*) Different thicknesses and lengths are available on demand and for minimum quantities.

Rev. 00 (11-15)

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ISO 9001  
ISO 14001  
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Certification



**Imper Italia srl** Via Volta, 8 · 10071  
Frazione Mappano · Borgaro (TO) Italy  
Tel (+39) 011 222.54.99 · Fax (+39) 011 222.54.80  
export@imper.it · www.imper.it