

SINTOPLAN RT FB**Description**

UV resistant PVC-P synthetic waterproofing membrane reinforced with a high performance polyester mesh, bonded with a polyester fabric on the lower face.

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**

Implementation of exposed roof waterproof surfaces applied with mechanical fastening with the possibility of direct application on XPS-EPS.

Implementation of glued waterproof surfaces (see RG / FB).

Application

SINTOPLAN RT FB membranes are applied partially independent by punctual or linear mechanical fastening with overlapping of welded sheets by automatic or manual 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 RT FB membranes must be installed by skilled applicators, approved by IMPER ITALIA srl.

Compatibility

SINTOPLAN RT FB membranes are not suitable for contact with bituminous materials, oils and solvents.

Safety regulations

Current regulations do not require a material safety data sheet for SINTOPLAN RT 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⁽¹⁾

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		≤30			
Flatness	1848-2	mm		≤10			
Density ^(*)	1849-2	kg/m ²	(-5/+10%)	1,70	2,00	2,40	2,90
Fabric	1849-2	g/m ²		≥100			
Tensile behaviour							
• Tensile strength L/T	12311-2/B	N/5 cm		≥1100/≥900			
• Elongation L/T	12311-2/B	%		≥15			
Cold flexibility	495-5	°C		≤-25 ⁽²⁾			
Resistance to static loading ^(*)	12730/B	kg		≥20			
Resistance to impact ^(*)	12691/A	mm		≥500			
Resistance to impact ^(*)	12691/B	mm		≥2000			
Hail resistance							
• Rigid substrate	13583	m/s		17			
• Dynamic substrate	13583	m/s		25			
Water tightness (10kPa)	1928			Absolute			
Resistance to vapour passage	1931	μ		21000			
Joint strength							
• Tensile strength	12317-2	N/5 cm		≥1000 (specimen fails outside bond area)			
• Peeling	12316-2	N/5 cm		≥260			
Resistance to artificial UV light	1297-5000 h			No surface crack (Degree 0)			

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.

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	20	15	15
Colour				Grey / Black	

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

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ISO 9001
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