

Technical Information

COSMOFIN FG

COSMOFIN FG is a monomer plasticised PVC waterproofing membrane with integrated polyester fabric reinforcement. COSMOFIN FG membranes are produced by extrusion method.

COSMOFIN FG is certified, approved and classified according to:

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| <ul style="list-style-type: none">• EN 13956 CE• EN 13967 CE• DIN V 20000-201• DIN V 20000-202• DIN 18531 (Waterproofing of Roofs)• DIN 18195 (Waterproofing of Buildings) | <ul style="list-style-type: none">• DIN 4102-1 (B2)• EN 13 501-1 (class E)• DIN 4102-7 (External Fire)• EN V 1187 / EN 13501-5 (B_{Roof} (t1))• UEATc guidelines |
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Designation according to DIN V 20000-201: **DE/E1 PVC-P-NB-V-(PW)-1,5 (1,8 / 2,0)**

Designation according to DIN V 20000-202: **BA PVC-P-NB-V-(PW)-1,5 (1,8 / 2,0)**

Characteristics of COSMOFIN FG:

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| <ul style="list-style-type: none">• Polyester fabric reinforcement• High tensile strength• Suited for hot air welding• Suited for solvent welding | <ul style="list-style-type: none">• Resistant to plant roots• Mouldable when warm (COSMOFIN F)• Recyclable• Free of cadmium and lead stabilizers |
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Types and application areas:

COSMOFIN FG:	Integrated reinforcement
Thickness:	1,5 mm / 1,8 mm / 2,0 mm
Membrane width:	1.060 mm / 1.650 mm
Length:	20 m / 17,5 m / 15 m
New building and refurbishment:	Mechanical fastening Loose lay under ballast
Colour:	Grey

System parts and accessories:

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| <ul style="list-style-type: none">• Homogeneous material for detail forming (COSMOFIN F)• Prefab elements like Internal and External Corners and Lightning Rod Protection Tubes• Composite Metal Sheet Plates and Coils• Stainless steel drainage and ventilation elements | <ul style="list-style-type: none">• WITEC Walkway, membrane for non-slip maintenance paths• WITEC KV pro, 300 g fleece with laminated 80 PE foil especially for the installation under ballast• Joint adhesives (Terotech Spray Adhesive, Terokal TK 914) |
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Technical support: +49 6053 708-141

Product information according to EN 13956 and EN 13967

EN 13956

Exposed application (mechanical fastening)
Under ballast (gravel, green roof, ...)

EN 13967

Damp proof sheets
Basement tanking

Characteristic	Testing standard	Unity	Details	Result 1,5 mm	Result 1,8 mm	Result 2,0 mm
Visible defects	EN 1850-2	-	passed	passed		
Length	EN 1848-2	M	MDV	20	17,5	15
Width		M	MDV	1,06 / 1,65		
Straightness		mm	MLV	≤ 50		
Flatness		mm	MLV	≤ 10		
Mass per unit area	EN 1849-2	kg/m ²	MDV	1,9	2,3	2,5
Water tightness	EN 1928 B	kPa	MLV	passed		
External fire performance	EN V 1187	-	Annex E	B _{Roof} (t1)** Resistant to flying sparks and radiation heat according to AbP		
Reaction to fire	EN 13501-1	-	s. 5.2.5.2	Class E		
Joint peel resistance	EN 12316-2	N/50 mm	MLV	≥ 300		
Joint shear resistance	EN 12317-2	N/50 mm	MLV	≥ 800		
Tensile strength	EN 12311-2	N/50 mm	MLV	≥ 1000		
Elongation		%	MLV	≥ 10		
Resistance to impact	EN 12691	mm	MLV	≥ 600	≥ 700	≥ 750
Method A						
Method B	EN 12691	mm	MLV	≥ 600	≥ 700	≥ 750
Resistance to static load	EN 12730 Method B	kg	MLV	≥ 20		
Durability of water tightness against aging	EN 1296 according EN 1928	-	passed	passed		
Durability of water tightness against chemicals	EN 1847 according EN 1928	-	passed	passed		
Nail tear resistance	EN 13859-1	N	MLV	≥ 400		
Tear resistance	EN 12310-2	N	MLV	≥ 250		
Resistance to root penetration	EN 13948	-	passed	passed		
Dimensional stability	EN 1107-2	%	MLV	≤ 1.0		
Foldability at low temperature	EN 495-5	°C	MLV	≤ -25		
UV exposure	EN 1297	visual	passed	passed		
Hail resistance	EN 13583	m/s	MLV	≥ 25		
Water vapour permeability	EN 1931	-	μ = MDV or 15.000	25.000 ± 5.000		

Explanation: MDV = Manufacturer's declared value
MLV = Manufacturer's limiting value
* Values in new conditions
** Valid for the respective proofed roof structure

You can find the declarations of performance on our website www.wolfin.com / Downloads