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CE

TECHNICAL DATA SHEET 01/ 12.2023

SINTOFOIL ST

Non-reinforced TPO/FPA membrane for single ply waterproofing of exposed flat roofs bonded on the lower face with nonwoven polyester fabric.

DESCRIPTION:

Synthetic waterproofing membrane produced by co-extruding a uniform UV resistant elastomeric TPO/FPA thermoplastic olefin and flexible polypropylene alloy.

The membrane features contrasting colors on its upper and lower faces, providing a signal layer so that any damage occurring during or after installation will be immediately apparent. SINTOFOIL ST membranes comply with CE marking requirements, if applicable.

APPLICATION:

Reaction to fire

Root resistance

SINTOFOIL TPO/FPA membranes are installed by mechanical fastening in seam overlaps area. Overlap seams are welded by hot air welding equipment, such as manual or automatic hot air welding machines with temperature control.

The installation should be carried out in accordance with the Manual for installation of single ply polymer roofing and waterproofing membranes.

FIELDS OF APPLICATION:

FN 12311-2

EN 12311-2

EN 13501-1

ISO 846 Level 2

FN 13948

Contact with drinking water Italian Ministerial Decree 26-04-93

n. 220 - O.J. no. 162 / 13-07-1993 and subsequent amendments

 SINTOFOIL ST is designed for corners reir as piping, funnels, aerators and other protr 	0 0	nections betwe	en different r	oof elements	such					
TECHNICAL FEATURES:										
Properties	Test Method		Performance ⁽¹⁾							
Standard thickness, mm	EN 1849-2	1.2	1.5	1.8	2.0					
Tensile strength L/T, N/mm ²	EN 12311-2		16 /	15						
Elongation at break L/T, %	EN 12311-2		700 /	700						
Dimensional stability, %	EN 1107-2		≤ ().5						
Cold flexibility, °C	EN 495/5		< -40 ⁽²⁾							
Tear resistance L/T, N	EN 12310/1	330 / 240	450 / 400	550 / 500	650 / 60					
Water vapour permeability (resistance factor $\boldsymbol{\mu})$	EN 1931		90.0	000						
Resistance to static loading, kg	EN 12730/B		≥ 2	25						
Resistance to impact, mm	EN 12691/B	≥ 1000								
Hail resistance, m/s	EN 13583	≥ 30 ⁽³⁾								
Water tightness (60 kPa)	EN 1928	Absolute								
Joint strength: Tensile strength, N/cm	EN 12317-2	Compliant (specimen fails outside bond area)								
Joint strength: Peeling, N/cm	EN 12316-2		≥ ;	58						
Resistance to artificial UV light	EN 1297-5000 h	No surface damage or significant changes in cold flexibility as per EN 495/5								

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

⁽²⁾ Not tested at lower temperatures.

Contact with drinking water (DW)

⁽³⁾ Not tested at higher speeds.

Change in tensile strength, Δ %

Change in elongation at break, Δ%

Resistance to algae and microorganisms





-5

-5

Class E

Compliant

Passes the test

Suitable



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		
Standard color (*)		Grey / Black					

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