



SINTOFOIL RG WPS

TPO/FPA synthetic waterproofing membrane reinforced fiberglass

DESCRIPTION:

Synthetic waterproofing membrane produced by co-extruding a uniform highly flexible elastomeric polyolefin alloy with a fiberglass reinforcing mat that makes it dimensionally stable.

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. It is not UV resistant. SINTOFOIL RG WPS membranes comply with CE marking requirements, if applicable ⁽¹⁾.

Notes: ⁽¹⁾ The membrane is equipped with specific accessories, to be requested explicitly.

APPLICATION:

SINTOFOIL TPO/FPA membranes 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 singleply polymer membranes for underground waterproofing](#).

FIELDS OF APPLICATION:

- SINTOFOIL RG WPS membrane is recommended for waterproofing of underground structures: foundations, retaining walls.

TECHNICAL FEATURES:

Properties	Test Method	Performance ⁽²⁾		
Standard thickness, mm	EN 1849-2	1.5	1.8	2.0
Density, kg/m ²	EN 1849-2	1.37	1.64	1.82
Tensile strength L/T, N/50 mm	12311-2/ISO 527	650 / 600	750 / 750	800 / 800
Elongation at break L/T, %	12311-2/ISO 527	600 / 600		
Dimensional stability, %	EN 1107-2	≤ 0.1		
Cold flexibility, °C	EN 495/5	≤ -40 ⁽³⁾		
Tear resistance L/T, N	EN 12310/1	450 / 400	500 / 450	600 / 550
Resistance to static loading, kg	EN 12730/B	≥ 25		
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		
Durability: Waterproofing after thermal ageing	EN 1926 EN 1928	Passes the test at 60 kPa		
Resistance to algae and microorganisms	ISO 846 Level 2	Compliant		
Root resistance	EN 13948	Passes the test		

⁽²⁾ Tolerances as per EN 13967.

⁽³⁾ Not tested at lower temperatures.

PRODUCTION STANDARDS

Thickness ^(*)	mm	1.5	1.8	2.0
Width	m	2.10	2.10	2.10
Length ^(*)	m	25	20	20
Color	Beige / Black			

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

