



SINTOFOIL ST WPS PT

Non-reinforced synthetic membrane for protection of underground TPO/FPA waterproofing systems.

DESCRIPTION:

TPO/FPA Synthetic membrane produced by co-extruding a uniform highly flexible elastomerised polyolefin alloy. It is not UV resistant.

It is recommended as a protective layer of synthetic waterproofing systems in TPO/FPA for underground works ⁽¹⁾.

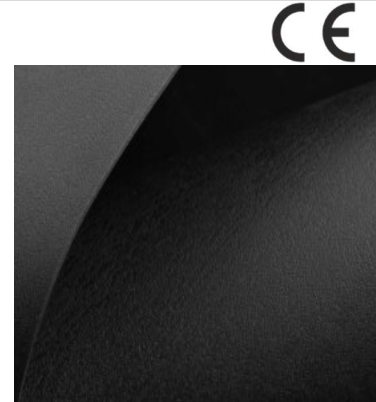
Notes: ⁽¹⁾ The membrane is equipped with specific accessories, to be requested explicitly.

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 single ply polymer membranes for underground waterproofing](#).

FIELDS OF APPLICATION:

- The SINTOFOIL ST WPS PT membrane is suitable for the protection of waterproofing systems for underground works: tunnels, foundations, retaining walls.



TECHNICAL FEATURES:

Properties	Test Method	Performance ⁽²⁾
Standard thickness, mm	EN 1849-2	2.0
Density, kg/m ²	EN 1849-2	1.80
Tensile strength L/T, N/mm ²	12311-2/ISO 527	15 / 15
Elongation at break L/T, %	12311-2/ISO 527	600 / 600
Dimensional stability, %	EN 1107-2	≤ 0.5
Cold flexibility, °C	EN 495/5	≤ -40 ⁽³⁾
Tear resistance L/T, N	EN 12310/1	650 / 600
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	2.0
Width	m	2.10
Length ^(*)	m	20
Standard color		Black

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