

SINTOFOIL ST/WP



1. PRODUCT DESCRIPTION ⁽¹⁾

Synthetic waterproofing membrane produced by co-extruding a uniform highly flexible UV resistant elastomerized polyolefin 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/WP membranes comply with CE marking requirements where applicable.

2. SPECIFICATIONS ⁽²⁾

Standard thickness ⁽³⁾ (EN 1849-2)	mm	1.5	2
Standard dimensions (1848-2)	m	2.10 × 25	
Standard colors ⁽⁴⁾		Green	
Density (1849-2)	kg/m ²	1.35	1.80
Tensile properties (EN 12311-2/ISO 527)			
• Tensile strength, L/T	N/mm ²	15/15	
• Ultimate elongation, L/T	%	600/600	
Cold flexibility (EN 495)	°C	≤-40 ⁽⁵⁾	
Dimensional stability (EN 1107-2)	%	≤0,5	
Tear resistance, L/T (EN 12310/1)	N	450/400	650/600
Puncture resistance – Static indentation (EN 12236)	Kn	2,5	3
Hail resistance (EN 13583)	m/s	≥26	
Watertightness (500 MPa - 6 h) ⁽⁶⁾		Absolute	
Joint strength			
- Tensile strength (EN 12317-2)		Passes test (specimen fails outside bond area)	
- Peeling (EN 12316-2)	N/cm	≥58	
Durability			
- Resistance to artificial UV weathering (EN 1224-5000 h)		No surface damage or significant changes in cold flexibility as per EN 495/5	
- Oxidation resistance (EN 14575)		Complies with requirements	
Resistance to algae and microorganisms (EN ISO 846 level 2)		Complies with requirements	
Root resistance (FLL)		Passes test	

3. RECOMMENDED USES

SINTOFOIL ST/WP membranes are designed specifically for:

- Reservoirs supported by packed earth or cementitious surfaces
- Canals under fixed protection
- Cement holding tanks for water
- Fish farming tanks

Note: Given the versatility and reliability of SINTOFOIL membranes, other applications can be developed with the assistance of the Imper Italia RUBBERFUSE Division Technical Services.

4. CHEMICAL RESISTANCE

Sintofoil ST/WP membranes are particularly resistant to contact with a wide range of acids and bases with no loss in performance.

However, suitability for applications involving prolonged contact with corrosive agents, hydrocarbons, oils and greases, particularly at high temperatures, must be evaluated on a case by case basis.

5. METHODS OF APPLICATION

SINTOFOIL membranes are designed for easy bonding with a hot air gun, as no adhesives or other materials of any kind are required.

Design solutions and application methods are illustrated in the technical manual published by the RUBBERFUSE Division.

Waterproofing systems employing SINTOFOIL membranes should be laid by installers authorized by RUBBERFUSE Division Technical Services.

- Notes: (1) Specific auxiliary materials are available for use with the membrane.
(2) Tolerances as per EN 13956 and/or UEAtc Directives.
(3) Other thicknesses available on request.
(4) Color of exposed face. Lower face is black to serve as a signal layer.
Exposed face is available in other colors on request.
(5) Not tested at lower temperatures.
(6) Complies with EN 13361 - EN 13362.

The data stated refer to average standard effective on the date of print. IMPER ITALIA S.p.A. is entitled to amend/change these data without notice.



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