DIVISION RUBBER FUSE
IMPER ITALIA S.P.A.
synthetic waterproofing systems

SINTOFOIL RT

CE

1. PRODUCT DESCRIPTION

Synthetic waterproofing membrane produced by co-extruding a UV resistant elastomerized TPO/FPA thermoplastic olefin and flexible polypropylene alloy with a polyester net reinforcing mat.
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.
Membrane is also available in the SINTOFOIL RT/FB, with nonwoven polyester fabric bonded to the lower face.
SINTOFOIL RT membranes comply with CE marking requirements where applicable.

2. SPECIFICATIONS (1)

Standard thickness (EN 1849-2)	mm	1.2	1.5	1.8	2
Standard dimensions (1848-2)	m	2.10 × 25			
Standard colors (2)		Gray			
Density (1849-2)	kg/m^2	1.13	1.37	1.67	1.85
Tensile properties (EN 12311-2) • Tensile strength, L/T • Ultimate elongation, L/T	 N/5 cm %	 1100 25			
Cold flexibility (EN 495/5)	°C	≤–40 (3)			
Dimensional stability (EN 1107-2)	%	≤0,5			
Tear resistance, L/T (EN 12310/1)	N	500/550			
Water vapor permeability (EN 1931)	μ	50.000			
Puncture resistance – Static indentation (EN 12730/B)		≥L25			
Puncture resistance – Dynamic indentation (EN 12691/B)	mm	≥1200			
Hail resistance (EN 13583)	m/s	≥26			
Watertightness (60kPa) (EN 1928)		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) - Heat aging in air • Change in tensile strength (EN 12311-2) • Change in ultimate elongation (EN 123111-2)	 Δ% Δ%	 No surface damage or significant changes in cold flexibility as per EN 495-5 –5 –5			
Wind load resistance (wind suction test) (UEAtc) • Mechanically retained system	 Pa	 ≥6000			
Fire reaction rating (EN 13501-1)		Class E (4)			
Fire resistance (ENV 13501-5)		B Roof (t1) (5)			
Resistance to algae and microorganisms (EN ISO 846 level 2)		Complies with requirements			
Root resistance (FLL)		Passes test			

3. CAMPI DI APPLICAZIONE

SINTOFOIL RT membranes are designed specifically for:

• Waterproofing layers applied independently under heavy-duty fixed or movable protection.

- Roofing exposed to foot and vehicular traffic
- Inverted roof membrane assemblies

• Adhesive bonded waterproofing on exposed roofing (RT/FB).

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 RT 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) Tolerances as per EN 13956 and/or UEAtc Directives.
(2) Color of exposed face. Lower face is black to serve as a signal layer.
Exposed face is available in other colors on request.
(3) Not tested at lower temperatures.
(4) Fire *Labs Test Report No. FLT KE2157207*.
(5) *Warringtonfiregent - Classification Report for roofs/roof coverings exposed to external fire No. 13561B* (Sintofoil ST/noncombustible substrate).

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