

SINTOFOIL RG/WPS**Description⁽¹⁾**

Synthetic waterproofing membrane produced by co-extruding a highly flexible elastomerised polyolefin alloy with a fibreglass reinforcing mat that makes it dimensionally stable. The membrane features contrasting colours on its upper and lower faces, providing a signal layer so that any damage occurring during or after installation will be immediately apparent. SINTOFOIL RG/WPS membranes comply with CE marking requirements, if applicable.

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

System certifications

QMS (Quality Management System) certification according to ISO 9001.

Fields of application**Specific use**

SINTOFOIL RG/WPS membrane is recommended for waterproofing of underground structures:

- foundations;
- retaining walls.

Note: Given the versatility and reliability of SINTOFOIL membranes, other applications can be developed with the assistance of the IMPER ITALIA srl – Rubberfuse Division Technical Services.

Application

Sintofoil membranes are applied through hot air gun on their overlapping joints, 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 authorised by RUBBERFUSE Division Technical Services.

TECHNICAL FEATURES⁽²⁾

| Features | EN Standards | U.M. | Tolerance | Values | | |
|---|-----------------|-------------------|-----------|---|---------|---------|
| Standard thickness | 1849-2 | mm | (-5/+10%) | 1,5 | 1,8 | 2,0 |
| Density | 1849-2 | kg/m ² | (-5/+10%) | 1,37 | 1,64 | 1,82 |
| Tensile properties | | | | | | |
| • <i>Tensile strength L/T</i> | 12311-2/ISO 527 | N/5 cm | | 650/600 | 750/750 | 800/800 |
| • <i>Elongation at break L/T</i> | 12311-2/ISO 527 | % | | 600/600 | | |
| Dimensional stability | 1107-2 | % | | ≤ 0.1 | | |
| Cold flexibility | 495 | °C | | ≤ -40 ⁽³⁾ | | |
| Tear resistance L/T | 12310/1 | N | | 450/400 | 500/450 | 600/550 |
| Resistance to static loading | 12730/B | kg | | ≥ 25 | | |
| Water tightness (0.5 MPa – 6h)⁽⁴⁾ | | | | Absolute | | |
| Joint strength | | | | | | |
| • <i>Tensile strength</i> | 12317-2 | N/cm | | Compliant (specimen fails outside bond area) | | |
| • <i>Peeling</i> | 12316-2 | N/cm | | ≥ 58 | | |
| Durability | | | | | | |
| • <i>Waterproofing after thermal ageing</i> | 1926-1928 | | | Passes the test at 60 kPa | | |
| Resistance to algae and microorganisms | ISO 846 Level 2 | | | Compliant | | |
| Root resistance | 13948 | | | Passes the test | | |

Notes: (2) Tolerances as per EN 13967

(3) Not tested at lower temperatures.

(4) Complies with EN 13361 – EN 13362.

PRODUCTION STANDARDS

| | | | | |
|--------------------------------|----|------|---------------|------|
| Thickness^(*) | mm | 1,5 | 1,8 | 2,0 |
| Width | m | 2,10 | 2,10 | 2,10 |
| Length^(*) | m | 25 | 20 | 20 |
| Colour | | | Beige / Black | |

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

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ISO 9001
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Certification



Imper Italia srl Via Volta, 8 · 10071
Frazione Mappano · Borgaro (TO) Italy
Tel (+39) 011 222.54.99 · Fax (+39) 011 222.54.80
export@imper.it · www.imper.it