

FLAGON EP/PV-F

Fleece-backed TPO modified polyolefin synthetic membrane

April 2024

DESCRIPTION:

TPO modified polyolefin synthetic membrane obtained by co-extrusion, dimensionally stabilised by a glass fibre and coupled on the back sheet with a non woven felt. The upper sand grey layer has a high resistance to weather agents and UV rays. Manufactured in a plant certified by UNI EN ISO 9001 (quality management system) and UNI EN ISO 14001 (environmental management system). Laying performed by applicators approved by SOPREMA srl. Finishing and accessories composed by elements produced and approved by SOPREMA srl.



FEATURES:

- Waterproof and UV resistance
- Dimensional stability
- Mechanical resistance and resistance to punching
- Excellent flexibility at low temperatures

AREAS OF USE:

Total adherence on horizontal surfaces for:

- Gluing on insulating panels
- Gluing on concrete roofs
- Gluing on existing waterproofing covering

PACKAGING:

Thickness	1.20 mm	1.50 mm	1.80 mm	2.00 mm	
Width	2.10 m	2.10 m	2.10 m	2.10 m	
Number of rolls on each pallet	12	12	12	12	
Length	25 m	20 m	20 m	20 m	

TECHNICAL DATA:

Properties	EP/PV-F 1.20	EP/PV-F 1.50*	EP/PV-F 1.80	EP/PV-F 2.00*	Test Method
Thickness (mm)	1.20	1.50	1.80	2.00	EN 1849-2
Weight (kg/m ²)	1.35	1.70	2.00	2.15	EN 1849-2
Tensile strength (N/5cm)	≥ 550	≥ 650	≥ 800	≥ 850	EN 12311-2
Elongation at break (%)	≥ 350	≥ 350	≥ 350	≥ 350	EN 12311-2
Tear resistance (N)	≥ 200	≥ 250	≥ 300	≥ 340	EN 12310-2
Resistance to impact (mm)	≥ 450	≥ 800	≥ 900	≥ 1250	EN 12691
Cold bending (°C)	≤ -40	≤ -40	≤ -40	≤ -40	EN 495-5
Hydrostatic pressure resistance (6 hours at 0.5 Mpa)	Waterproof	Waterproof	Waterproof	Waterproof	EN 1928 met. B
Dimensional stability (%)	≤ -0.1	≤ -0.1	≤ -0.1	≤ -0.1	EN 1107-2
Resistance to artificial weathering (UV)	No surface cracking	No surface cracking	No surface cracking	No surface cracking	EN 1297
Resistance to static punching (kg)	≥ 20	≥ 20	≥ 20	≥ 20	EN 12730
Fire resistance	E	E	E	E	EN ISO 11925-2 EN 13501

*1.50 mm and 2.00 mm thickness as standard stock. Other sizes available on request.

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SCOPE OF USE:

FLAGON EP/PV-F is used as a single ply membrane in the FLAGON TPO Roof & Deck, and TPO-THERM Warm Roof waterproofing systems. The fleece-back membrane can be more aesthetically forgiving of imperfections in the substrate especially during renovations. The products is adhered with an Equus approved glue over plywood, concrete or other approved substrates. Suitable for roofs, decks, balconies, gutters and other waterproofing applications on new builds or renovations. Where a building is being re-roofed, the fleece-back provides a barrier between old and new membrane, not present in a naked TPO. Suitable for residential and commercial construction.

FLAGON EP/PV-F can be overlaid with Fixplus or other approved pedestals, pavers and decking, Kraitec Step walkway tiles, and SOPRASOLAR or other approved solar panel supports.

Uses not outlined in this TDS must have written approval by Equus Industries Ltd.

CONDITIONS OF USE:

In areas of regular foot traffic, higher than for normal maintenance traffic, the membrane must be overlaid with pedestals and pavers or decking, Kraitec Step walkway tiles or other approved protection.

The product must be installed by a Certified Equus Applicator. Verification of their status can be confirmed by a current applicator certificate or by contacting Equus Industries. Any installation must be done in accordance with the latest specifications and technical documentation, or with written approval by Equus Industries Ltd.

BUILDING CODE COMPLIANCE:

B2 Durability - B2.3.1 (b), Flagon EP/PV-F has a durability of at least 15 years when installed with the correct specification, installation and maintenance. See BRANZ Appraisal 1157.

E2 External moisture - E2.3.1, E2.3.2, E2.3.7 Test data, together with in-service history in New Zealand and internationally, of the correctly installed Flagon EP/PV-F membrane over correctly designed and constructed substrates, show that the membrane successfully resists the ingress of moisture. See BRANZ Appraisal 1157.

F2 Hazardous building materials - F2.3.1 Well known experience with the type of materials used together with in-service history, show that Flagon EP/PV-F complies with this performance requirement. Refer to SDS at www.equus.nz

SUPPORTING DOCUMENTATION:

Title (type)	Version	URL
BRANZ Appraisal No. 1157	11 May 2021	https://www.equus.nz/content/reports/branz-appraisal-flagon-tpo-1157.pdf

CE MARKING:

Unique identification code of the product type: WPASIT0031
 FLAGON EP/PV-F membranes are produced by the company SOPREMA srl in Chignolo d'Isola (Italy) and are CE marked no. 1085-CPR-011 in accordance with EN 13956:2012 and no. 1085-CPR-0037 in accordance with EN 13967:2012.

HEALTH AND SAFETY:

For more information, please refer to the relevant safety data sheet.

WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURERS CONTACT DETAILS:

Manufacture location	Italy
Legal and trading name of manufacturer	Soprema New Zealand Limited
Manufacturer address for service	Level 3, Candida Building 4, 61 Constellation Drive, Mairangi Bay, Auckland 0630, New Zealand
Manufacturer website	www.soprema.com.au
Manufacturer email	info@soprema.com.au
Manufacturer phone number	+61 3 9221 6230
Manufacturer NZBN	9429050312962

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