

FLAGON® GEOP

WPSIT0033.a

DESCRIPTION

FLAGON GEOP membrane is a synthetic membrane made from TPO by co-extrusion. It has different physical-chemical properties on each side:

- the upper surface (light green) is treated against UV rays
- the underside (black) is highly resistant to puncture and perforation by roots

Any tears in the light green upper layer (signal-layer) of the membrane can be seen immediately due to the difference in colour between the two sides. A glass fibre sheet is positioned between the two layers.

The raw materials used to produce FLAGON TPO membranes are obtained by mixing modified polyolefins with different additives by means of a process that creates a paste which is later transformed into granules. This combination gives the synthetic membranes the following advantages:

- High resistance to ageing and weathering
- The elastomer component provides suppleness and flexibility with high mechanical and chemical resistance

CIVILROCK attaches the highest importance to the quality of its products. This is why we operate a quality assurance system according to ISO 9001 BSI certified.



FEATURES

- High resistance to weathering and UV rays
- Includes a signal layer
- High mechanical resistance
- High puncture resistance
- Resistance to perforation by roots
- Environmentally-friendly and non-toxic

SUGGESTED INSTALLATION EQUIPMENT

- Manual welding with hot air
- Automatic welding machine with hot air
- Automatic welding machine with double track

PACKING AND STORAGE

Rolls must be stored in upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to protect from any environmental impact such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of FLAGON® GEOP.

INTENDED USE OR USES

FLAGON GEOP is a TPO thermoplastic membrane dimensionally stabilized with a sheet of glass fibre, specifically designed for waterproofing basins, tanks, canals and similar structures. This membrane lining can contain salt or fresh water and low-concentration liquid chemicals. To verify the compatibility with the specific chemical liquids, please contact the technical office CIVILROCK (tech-office@soprema.it). The sheets are welded together by applying hot air or using hot wedge, with manual or automatic welder. The welding can be made either with a track that with double track. The double track allows to perform a pneumatic test with air.

FLAGON GEOP is compatible with all the accessories and membranes in the FLAGON TPO range.





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Technical Data

ESSENTIAL CHARACTERISTIC	STANDARD	GEOP 1.2	GEOP 1.5	GEOP 1.8	GEOP 2.0	GEOP 2.4
Tensile strength (N/mm ²)	EN 527-3			>9		
Static puncture resistance (N)	EN 12236	>750	>1,000	>1,200	>1,350	>1,550
Water permeability	EN 14150			<10 ⁻⁶ m ³ m ⁻² d ⁻¹		
Durability:						
Oxidation, variation in tensile properties (%)	EN 14575			≤ 25		
Environmental stress cracking (h)	ASTM D 5397			≥ 200		
Weathering, variation in tensile properties (%)	EN 12224			≤ 25		
Thickness (mm)	EN 1849-2	1.2 (±5%)	1.5 (±5%)	1.8 (±5%)	2.0 (±5%)	2.4 (±5%)
Mass per unit area (kg/m ²)	EN 1849-2	1.26	1.58	1.89	2.1	2.52
Breaking strength (%)	EN 527-3			≥ 550		
Cold bending (°C)	EN 495-5			≤ -40		
Water permeability after 6 hrs at 0.5Mpa	EN 1928 (B)			Watertight		
Resistance to perforation by roots	CEN TS 14416			No perforation		
Tear resistance (N/mm)	ISO 34 sample fig.2			≥ 45		
Resistance to thermal ageing in water:						
variation in tensile strength (%)	EN 14415			< 25		
mass loss (%)	(A and B)			<5		

EN 13361 & EN 13362

Production Standards

Thicknesses	1.2 mm	1.5 mm	1.8 mm	2.0 mm	2.4 mm
Numbers of rolls on each pallet	23	23	18	18	14
Roll length / width	25 ml/ 2.10 ml	20 ml / 2.10 ml (other lengths available on request)			
Colours available	Light Green (Surface) / Black (Underside)				

CE MARKING

Unique identification code of the product-type: WPSIT0033

FLAGON GEOP membranes are produced by SOPREMA srl in Chignolo d'Isola (Italy) and are CE marked no. 1085-CPR-009 in accordance with EN 13361:2013 and EN 13362:2013.

CERTIFICATION

FLAGON GEOP has obtained the following certifications:

France:

- Mentioned in CPP (Technical specifications): Basins, Tanks, Canals, Water towers and similar structures, by DEKRA.
- Certification ASQUAL for FLAGON GEOP 1.2 mm.

DECLARATION FROM MANUFACTURER

FLAGON® GEOP membranes are produced by the FLAG Spa factory (SOPREMA group) in Chignolo d'Isola (Italy) and are CE marked no. 1085-CPD-009 in accordance with EN 13361:2007 and EN 13362:2006.

CIVILROCK reserves the right, as technology and know-how progress, to modify without warning the composition and conditions of use of its materials, and subsequently their price. As a result, orders shall only be accepted on the basis of the terms and technical specifications applicable at the time of receipt.

INSPECTION AND MAINTENANCE

We recommend that inspections are carried out annually to confirm counterflashing, ensure drains are clear of blockages and to observe if any mechanical damage has occurred. Issues should be reported and rectified immediately. Our SOPREMA Trading Bitumen membrane range is designed to last more than 10 years with the correct maintenance regime in place. Contact your local SOPREMA Trading representative for any additional information.

QUALITY AND RESPONSIBLE CARE

All products distributed through SOPREMA Trading (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

TECHNICAL SUPPORT

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local SOPREMA Trading (Pty) Ltd representative. SOPREMA Trading (Pty) Ltd shall not be liable for technical advice provided. SOPREMA Trading (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

DISCLAIMER

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