

Technical Data Sheet

## ME014

### FR Breather Membrane BLACK (PA)

*Class B, W1 Façade Membrane*

28-08-2024 / V 1

#### Description

FR Breather Membrane Black (ME014) is a vapour permeable polyester, airtight and watertight breather membrane used as a traditional full façade breather membrane.

It is supplied on a 1500 mm x 50 m log and is installed directly over appropriate substrate types such as thermal insulation and sheathing boards to provide weather and UV protection to the built-up wall in closed, open, or partially open façades.

When installed as a full façade breather membrane over defined substrates with a minimum Class A2-s1, d0 fire performance, FR Breather Membrane Black (ME014) achieves a Class B fire performance in accordance with EN 13501-1.

FR Breather Membrane Black (ME014) should be used in conjunction with FR Window Sealing Membrane (ME010) to seal windows, doors and linear joints. When used together they form a continuous weather and airtight barrier around the full building envelope including structural openings.

FR Breather Membrane Black (ME014) meets the fire performance requirements for membranes installed on "relevant and higher risk buildings" as defined in Approved Document B of the Building Regulations for England and Wales.

It is important that FR Breather Membrane Black (ME014) is installed in the correct orientation with the smooth/coated side always facing outwards towards the external environment.



#### Features and Benefits

- Class B to EN 13501-1
- Permanently UV-resistant
- Easy to apply, fold and manipulate, with integrated self adhesive strips.
- Water resistant Class W1 to EN 13859-2 and resistant to wind driven rain.
- Airtight and can achieve Passiv Haus standards.
- Breathable (vapour-open)
- High range of in-service temperature resistance
- Non branded, plain black finish – suitable for visible applications
- Environmentally friendly - EC1+

#### Packaging

Supplied on rolls of 1.5m x 50m

#### Available Colour

Black

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#### Technical Characteristics

Grammage	EN 1849-2	Nominal 180 g/m <sup>2</sup>
Thickness	EN 1849-2	Nominal 0.4 mm
Resistance To Waterpenetration	EN 1928 (EN 13859-2)	Class W1
Fire Classification	EN 13501-1	Class B-s3, d0 when installed directly over a mineral substrate with a fire Classification of A1 or A2-s1, d0 and a density ≥ 25 kg/m <sup>3</sup> using small metal fixings. Class B-s2, d0 when installed directly over a mineral substrate with a fire Classification of A1 or A2-s1, d0 and a density ≥ 650 kg/m <sup>3</sup> using small metal fixings. Class B-s1, d0 when installed directly over a mineral substrate with a fire Classification of A1 or A2-s1, d0 and a density ≥ 615 kg/m <sup>3</sup> bonded with SP025.
Tear Resistance	EN 12310-1	Longitudinal > 45 N Transverse > 105 N
Water Vapour Resistance	EN 12572	< 0.60 MNs/g
Water Vapour Transmission	EN 12572	Sd < 0.12 m
Air Permeability	EN 12114	≤ 0.1 m <sup>3</sup> /m <sup>2</sup> .h@50 Pa
Uv Resistance	EN 1296/97	Exposed - 12 months Covered - Permanent (including open joints to max. 50 mm).
Application Temperature		+5°C to +30°C
Flexural Behaviour In Cold Conditions	EN 1109	-30°C
Tensile Strength	EN 12311-1	Longitudinal: > 480 N/50 mm Transverse: > 180 N/50 mm > 75% (after ageing)
Elongation	EN 12311-1	Longitudinal: < 30% Transverse: < 35%
Service Temperature	EN 13859-1	-40°C to +150°C
Storage		Store in shaded, dry conditions and avoid stacking pallets
Shelf Life (Dry Room And Unopened)		24 months when stored as recommended in original unopened packaging.

#### Application

The instructions below are not intended to be comprehensive and should be read in conjunction with Tremco CPG UK method statements and the FR Breather Membrane with Self Adhesive Strips installation guide available from our website.

ME014 FR Breather Membrane Black (PA) is applied directly from the roll, with the application usually starting from the lower floors of the construction with the subsequent layers overlapping one another horizontally by the specified 100 mm using the pre-applied adhesive strips. Vertical joints should overlap by 150mm.

Vertical overlaps & joints should be sealed using the illbruck ME316 Endurance Tape. Connections to windows and doors to make them watertight and airtight should be treated separately.

Please consult a member of the Tremco CPG UK technical team for specific solutions in these areas.

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#### Guarantee / Warranty

Tremco CPG UK Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Ltd written instructions and (b) in any application recommended by Tremco CPG UK Ltd, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct. Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

#### Health And Safety Precautions

Safety data sheet must be read and understood before use.

#### Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.



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