

## Technical Data Sheet

# ME014

## FR Breather Membrane

W1 (Watertight), Reaction to Fire B-s1, d0 to EN13501-1

11-12-2023 / V 2

### 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 substrates with a minimum Class A2-s1, d0 fire performance, FR Breather Membrane Black (ME014) achieves a Class B-s3, d0 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/glossy coated side always facing outwards towards the external environment.



### Features and Benefits

- Permanently UV-resistant
- Reaction to Fire Class B-s3, d0
- Easy to apply, fold and manipulate.
- Water resistant to EN 1928 at 24 hours 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+

### Usage Purpose

FR Breather Membrane Black (ME014) is a permanently UV stable, specially coated polyester based, airtight, watertight and vapour permeable membrane that is compliant with the regulatory requirements for use on 'Relevant and Higher Risk Buildings' as described in Approved Document B.

FR Breather Membrane Black (ME014) acts as a breather membrane when applied directly over thermal insulation or to compatible sheathing board.

### Storage

Store in shaded, dry conditions and avoid stacking pallets

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### Technical Characteristics

Aging Resistance	EN 1297/1296	>75 % of value as new
Air Permeability	EN 12114	≤ 0.1 m <sup>3</sup> /m <sup>2</sup> .h@50 Pa
Flexural Behaviour In Cold Conditions	EN 1109	< -30°C
Grammage	EN 1849-2	Approx. 180 g/m <sup>2</sup>
Maximum Tensile Strength Lengthwise/Crosswise	DIN 12311-1	Approx. 480/180 N ± 15%
Resistance To Waterpenetration	EN 1928 (EN 13859-2) EN 1928 (EN 13984) EN 1027	Class W1 - watertight after 2 hours Type A - watertight after 24 hours Weathertight at 1200 Pa
Service Temperature	EN 13859-1	-40°C to +150°C
Tear Growth Resistance	EN 12310-1	Approx. 45 / 105 N ± 20%
Thickness	EN 1849-2	Approx. 0.4 mm
Uv Resistance		Permanent
Vapour Diffusion-Equivalent Air Layer Thickness	EN ISO 12572	Sd-value: < 0.12 m

### Application

#### Intended Scope of Application

FR Breather Membrane Black (ME014) can be applied to the full façade.

The principal purpose of FR Breather Membrane Black (ME014) is to:

- Provide weather and UV protection during the construction phase and for the service life of the building.
- Prevent air and water penetration through the external wall construction from outside to inside.
- Manage and control moisture migration to the cold side of the wall build up.
- Remain vapour open to prevent localised instances of interstitial condensation and moisture build-up from occurring.

#### Application:

To provide maximum UV resistance and to maintain the fire performance of the product, FR Breather Membrane Black (ME014) must be applied with the smooth/glossy coated face exposed to the external environment. The textured side of the membrane is always installed facing back to the substrate.

#### Full Façade Breather Membrane:

FR Breather Membrane Black (ME014) is generally applied horizontally, directly from the log and the application usually starts from the lower floors of the construction with subsequent layers overlapping one another by the specified 100 mm (vertical overlaps should be 150 mm).

Each ascending layer is sealed to the substrate around the perimeter and to itself using illbruck ME316 Endurance Tape.

FR Breather Membrane Black (ME014) should be applied in accordance with illbruck best practice, specification guidance and method statements. For detailed step by step guidance on applying FR Breather Membrane Black (ME014) as a full façade breather membrane, please refer to "Application of FR Breather Membrane Black (ME014) full façade breather membrane",

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available on Tremco CPG UK website.

When using FR Breather Membrane Black (ME014), ensure the window and door perimeters are already sealed using Illbruck's FR Window Sealing Membrane (ME010) in order to provide a robust, fully bonded seal around the window and door interfaces.

When applying FR Breather Membrane Black (ME014) over the installed FR Window Membrane it should form an overlap which is sealed using ME316 Endurance Tape.

The connection of the trailing edge of the membrane to the structure should be completed as soon as possible to avoid leaving the trailing edge open to the effects of wind displacement or damage.

Applicators are advised to obtain full on site training and consult the relevant method statements in addition to reading this Technical Data Sheet.

## Areas Of Application

FR Breather Membrane Black (ME014) can be applied to the full façade.

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## Health And Safety Precautions

Safety data sheet must be read and understood before use.

## Technical Service

Tremco CPG UK Ltd 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.

## 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 Ltd Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

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