

### Description

ME010 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, ME010 achieves a Class B-s3, d0 in accordance with EN 13501-1.

ME010 is also available in slit width for use as a sealing membrane for windows, doors and linear joints, which is used in combination with the breather membrane to form a continuous weather and airtight barrier around the full building envelope including structural openings. ME010 meets the fire performance requirements for membranes installed on "relevant" building types as defined in Approved Document B of the Building Regulations for England and Wales.

It is important that ME010 is installed in the correct orientation with the smooth/glossy coated side always facing outwards towards the external environment.

### Colour

Black

### Packaging

Item No.	Roll Width* (mm)	Roll Length (mm)	Rolls/Box
398872	1,500	50 m	1

\*Other widths are available upon request – please consult CPG UK Customer Services with your requirements and for confirmation of lead times.

### Technical Information

Property	Standards	Result
Grammage	EN 1849-2	Approx. 180 g/m <sup>2</sup>
Thickness	EN 1849-2	Approx. 0.50 mm
Reaction to Fire	EN 13501-1	<p>Class B-s1, d0, adhesively bonded to a mineral substrate (min. A2-s1, d0) and a density of <math>\geq 615</math> kg/m<sup>3</sup> using SP025 adhesive.</p> <p>Class B-s3, d0, mechanically bonded using small metal fixings, to thermal insulation (min A2-s1,d0) and a density <math>\geq 25</math> kg/m<sup>3</sup>, with no air gap.</p>



## ME010

### Breather Membrane

#### Usage / Purpose

ME010 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' building types as described in Approved Document B.

ME010 acts as a breather membrane when applied directly over thermal insulation or to sheathing board.

#### Key Benefits

- Permanently UV-resistant
- Reaction to Fire Class B-s3, d0 or B-s1, d0 when bonded with SP025 Adhesive
- Easy to apply, fold and manipulate.
- Water resistant after 24 hours to EN 1928 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+

## Breather Membrane

Resistance to Water Penetration	EN 1928 (EN 13859-2)	Class W1 - watertight after 2 hours
	EN 1928 (EN 13984)	Type A - watertight after 24 hours
	EN 1027	Weathertight at 1200 Pa
Resistance to Water Penetration After Ageing	EN 1297/1296	Class W1
Maximum Tensile Strength - Lengthwise/ Crosswise	DIN 12311-1	Approx. 480/180 N ± 15%
After Ageing	EN 1297/1296	>75 % of value as new
Elongation of Break - Lengthwise/Crosswise	EN 12311-1	Approx. 30/35% ± 15%
After Ageing	EN 1297/1296	>75 % of value as new
Tear Growth Resistance / Nail Shank	EN 12310-1	Approx. 45 / 105 N ± 20%
Vapour Diffusion - Equivalent Air Layer Thickness	EN ISO 12572	Sd-value: Approx. < 0.12 m
Air Permeability	EN 12114	≤ 0.1 m <sup>3</sup> /m <sup>2</sup> .h.50 Pa
Service Temperature	EN 13859-1	-40°C to +150°C
Flexural Behaviour in Cold Conditions	EN 1109	<-30°C
UV Resistance	Permanent	
Storage	Store in shaded, dry conditions and avoid stacking pallets	
Shelf Life	1 year when stored as recommended in original unopened packaging	

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 ME315 Total Protection Tape.

ME010 should be applied in accordance with illbruck best practice, specification guidance and method statements. For a detailed step by step guidance on applying ME010 as a full façade breather membrane, please refer to “Application of ME010 full façade breather membrane”, available on CPG UK website.

When using ME010 for both applications, apply to the window perimeter first, followed by the full façade membrane in order to provide a robust, fully bonded seal around the window interfaces. 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.

### Intended Scope of Application

- ME010 can be applied to the full façade or around the perimeter of windows and doors which project forward from the backing wall in a built-up wall construction such as SFS or timber framed and sheathed walls.
- The principal purpose of ME010 is to:
  - 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 from occurring.
- Prevent unplanned air loss around windows and doors.

### Application

To provide maximum UV resistance and to maintain the fire performance of the product, ME010 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:

ME010 is generally applied horizontally directly from the log and the application usually starts from the lower floors

ME010

## Breather Membrane



### Health & 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.

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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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