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Description

ME010 is a vapour permeable polyester, airtight and watertight breather membrane. It is available in two formats, as a monolithic full facade breather membrane or in a range of slit widths, for use when sealing around windows, doors and curtain wall or for sealing sheathing board to board and sheathing board to structure joints. It is supplied in 1,500 mm x 50 m rolls or in a range of smaller slit widths.

When attached with no air gap, using metal nails, staples or screws and tested in accordance with EN 13501-1, ME010 achieves a fire classification of B-s3, d0. When tested as a complete system attached to the substrate using SP025 Fire Membrane Adhesive, the system achieves Class B-s1, d0. Both classifications meet the requirements for membranes given in Approved Document B of the Building Regulations for England and Wales.

When tested for water resistance in accordance with EN 1928, ME010 remains water tight at 24 hours when subject to a 2 kPa head of water. It meets both the criteria for a Class W1 membrane in accordance with EN 13859-2 and the more onerous requirements stated for a Type A water resistance membrane given in EN 13984.

Colour

Black

Packaging

Item No.	Roll Width* (mm)	Roll Length (mm)	Rolls/Box
398872	1,500	50 m	1
500932	60	50 m	1
500931	100	50 m	1
500930	150	50 m	1
500929	200	50 m	1
500928	250	50 m	1
346531	300	50 m	1
500927	350	50 m	1
346532	400	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. 160 g/m²
Thickness	EN 1849-2	Approx. 0.5 mm

ME010

Façade UV & Fire Membrane

Usage / Purpose

This high performance breather membrane can be directly laid on sheathing board or thermal insulation behind partially or fully open rain screen façades or curtain walling. ME010 is a highly vapour open, watertight, polyester-based breather membrane, with Class B-s1, d0 to EN 13501-1 including adhesive, tested by MPA Hannover. Watertight to EN 1928 up to 24 hours. Suitable for full façade or window perimeter sealing applications.

Key Benefits

- Permanently UV-resistant
- Class B-s1, d0 to EN 13501-1, fixed to sheathing board (min. A2-s1, d0) using SP025 adhesive as a system.
- Weathertight after 24 hours to EN 1928
- Airtight
- High range of in-service temperature resistance
- Highly vapour-open
- Non-branded, plain black finish - suitable for visible applications
- Available with self-adhesive strip

ME010

Façade UV & Fire Membrane

Reaction to Fire	EN 13501-1	Class B-s1, d0, adhesively bonded to a mineral substrate (min. A2-s1, d0) and a density of ≥ 615 kg/m³ using SP025 adhesive. Class B-s3, d0, mechanically bonded using small metal fixings, to thermal insulation (min A2-s1,d0) and a density ≥ 25 kg/m³, with no air gap.
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 600 Pa
Resistance to Water Penetration After Ageing	EN 1297/1296	Class W1
Maximum Tensile Strength - Lengthwise/ Crosswise	DIN 12311-1	Approx. 400/230 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. 100 / 120 N ± 15%
Vapour Diffusion - Equivalent Air Layer Thickness	EN ISO 12572	Sd-value: Approx. 0.04 m
Air Permeability	EN 12114	≤ 0.1 m³/m².h.50 Pa
Service Temperature	EN 13859-1	-40°C to +150°C
Flexural Behaviour in Cold Conditions	EN 1109	<-20°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	

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.
- 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 principal purpose of ME010 is to:
  - Prevent water penetration through the window/door perimeter gap or full façade from outside to inside.
  - Manage and control moisture migration on 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.
- ME010 adhesively fixed with SP025, when tested as a system is classified as Class B-s1, d0 in accordance with EN 13501-1 and conforms with Approved Document B, Requirement B4 and Regulation 7.

Application – for Window Perimeter Sealing

PREPARATION

- Ensure surfaces are clean, dry, free from dust, debris and any other contaminants that may affect adhesion.
- To achieve maximum UV stability, and to ensure a good bond, the selected width must be installed with the outer textured (fleeced) face of the membrane orientated towards the structure, with the inner smooth face left exposed to the UV light.
- The use of illbruck primers may be required – if in doubt please consult CPG UK technical department before commencing works.
- When bonding SP025 to silicone based sealants, use AT140 Primer applied directly to the cured sealant.
- ME010 can be applied to the entire perimeter of windows and doors that project from the backing wall in a built-up wall construction such as SFS or timber framed and sheathed walls. Suitable for single windows and curtain walling or multiple coupled windows.
- ME010 is applied in the same way as other window sealing membranes such as ME501 Duo Window Membrane HD and ME220 EPDM Membrane.
- For a detailed step by step guide please refer to Method Statement: "Installation of illbruck Membranes to Windows and Doors – Windows Projecting Externally from Backing Wall".

Fixing to the Frame

- To achieve maximum UV stability, and to ensure a good bond, the selected width must be installed with the outer textured (fleeced) face of the membrane orientated towards the structure, with the inner smooth face left exposed to the UV light.
- Starting at the sill - apply a consistent minimum 10 mm diameter bead of SP025 adhesive in the usual way to the edge of the frame and sill if fitted.
- Locate the pre-cut length of ME010 with finger pressure onto the frame/sill
- When satisfied with positioning, consolidate the bond by applying pressure and rolling over the top of the membrane with a seam roller until a small amount of "ooze" is visible at the edge of the membrane. The compressed bead should be approximately 20-30 x 2-3 mm. If it is not possible to apply a consolidated bead of minimum 20 mm, please consult CPG UK technical department.
- Cut, fold and seal the corners as per method statement.
- Start the application of the membrane at the sill, then

jambs and finally the head ensuring all overlaps are in a downward direction.

Completing the Lap to the Structure

- Mark out with a straight edge around the entire perimeter the position where the trailing edge of the membrane will terminate on the sheathing or other structural element.
- Mark out another dotted line 15 mm inside the first line around the entire perimeter. This is the position where the SP025 adhesive will be applied.
- Starting at the sill - Apply a consistent 10 mm diameter bead of SP025 adhesive in the usual way onto the second dotted line.
- Locate the trailing edge of ME010 with finger pressure onto the adhesive ribbon.
- When satisfied with positioning, consolidate the bond by applying pressure and rolling over the top of the membrane with a seam roller until a small amount of "ooze" is visible at the edge of the membrane. The compressed bead should be 20-30 x 2-3 mm.
- Cut, fold and seal the corners as per method statement.

Application – For Full Façade Protection

- For connecting to previously applied ME010 window perimeter seal, bond with SP025 or ME315 Total Protection Tape then continue on the façade as below.
- Apply the membrane horizontally, starting from the bottom to ensure natural water run-off, fixing each sheet with staples or SP025 adhesive* to the sheathing board or other substrate.
- When applying the membrane from the roll, to achieve maximum UV stability, and to ensure a good bond (if applicable), the outer textured (fleeced) face of the membrane must be orientated towards the structure, with the inner smooth face left exposed to the UV light.
- For fixing (mechanical or bonding), a supporting area of minimum 30 mm is required.
- For correct joint formation, a minimum overlap of 100 mm is required. Seal the overlap with SP025, ME315 or ME316 tape for a wind tight connection.*
- Mechanical damage, penetrations or connections should be sealed with SP025, ME315 or ME316 depending on the application.*
- When likely to be exposed to weather for an extended time during the construction period, it is recommended that the membrane is fully adhered around the full perimeter. This prevents damage due to ingress of wind behind the membrane. It is also beneficial to apply dabs of SP025 adhesive at approximately 500 mm centres across the surface area to aid membrane stability.
- Available with self-adhesive strip (subject to MOQ and 4 weeks' delivery time).

** For applications needing to comply with Approved Document B, Requirement B4 and Regulation 7, SP025 must be used in order to comply with the minimum Classification B-s3, d0 to EN 13501-1. If unsure, please contact CPG UK for advice. For membrane to membrane overlaps, ME315 or ME316 at 60 mm width will comply with the above Regulation 7 when considered as a 'seal' and therefore exempt under Approved Document B.*

Please Note

- When sealing at low thresholds subject to regular or permanent wetting, ME220 EPDM Membrane should be used at the sill in conjunction with ME010 to the head and jambs. ME010 must be bonded to ME220 with OT015 Adhesive. Consult CPG UK for further information.
- The connection of the trailing edge of the membrane to the structure should be completed as soon as possible. Avoid leaving the trailing edge open to the effects of wind to reduce the possibility of damage to the partially installed membrane.
- ME010 on the façade should be adhered (using SP025 adhesive) to the ME010 Membrane at the window interface to ensure continuity of the temporary weather tight line.
- For further information regarding SP025 adhesive please consult technical data sheet, available from website (www.cpg-europe.co.uk).
- An optional termination bar may be considered to provide mechanical retention of the 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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