

Description

ME010 is a vapour permeable polyester, airtight and fully watertight membrane used as a perimeter membrane seal to the external side of glazed units such as windows, doors, and curtain walling.

When correctly installed with illbruck SP025 Fire Membrane Adhesive, it provides an air and fully watertight seal over the construction joint which remains breathable to enable any trapped incidental moisture or condensation to escape out through to the external side of the wall construction.

It can also be used to seal and protect horizontal and vertical linear joints between sheathing boards and the main structure.

It is available in a range of pre-cut slit widths from 60 mm to 400 mm wide.

When bonded to the glazing frame and structure with illbruck SP025 Fire Membrane Adhesive, the combined system has been tested and achieves a Class B-s1, d0 fire performance in accordance with EN 13501-1.

When tested for water resistance in accordance with EN 1928 with a 2 kPa head of water, ME010 remains watertight for 24 hours and 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 resistant membrane as given in EN 13984.

ME010 is also available as a full facade breather membrane which is used in combination with the window sealing 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
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



ME010

Window & Door Sealing Membrane

Usage / Purpose

ME010 is a permanently UV stable, specially coated polyester based, airtight and watertight membrane that is compliant with the regulatory requirements for use on ‘Relevant’ building types as described in Approved Document B.

ME010 is available in a range of slit widths to seal the external perimeters of glazed units and curtain walling.

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+

Window & Door Sealing Membrane

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. 180 g/m ²
Thickness	EN 1849-2	Approx. 0.5 mm
Reaction to Fire	EN 13501-1	Class B-s1, d0, adhesively bonded to a mineral substrate (min. A2-s1, d0) and a density of $\geq 615 \text{ kg/m}^3$ using SP025 adhesive. Class B-s3, d0, mechanically bonded using small metal fixings, to thermal insulation (min A2-s1,d0) and a density $\geq 25 \text{ kg/m}^3$, with no air gap.
Resistance to Water Penetration	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 1,200 Pa
Resistance to Water Penetration After Ageing	EN 1297/1296	Class W1
Maximum Tensile Strength - Lengthwise/ Crosswise	DIN 12311-1	Approx. 450/180 N $\pm 15\%$
After Ageing	EN 1297/1296	>75 % of value as new
Elongation of Break- Lengthwise/Crosswise	EN 12311-1	Approx. 30/35% $\pm 15\%$
After Ageing	EN 1297/1296	>75 % of value as new
Tear Growth Resistance / Nail Shank	EN 12310-1	Approx. 45 / 105 N $\pm 20\%$
Vapour Diffusion - Equivalent Air Layer Thickness	EN ISO 12572	Sd-value: Approx. < 0.12 m
Air Permeability	EN 12114	$\leq 0.1 \text{ m}^3/\text{m}^2 \cdot \text{h} \cdot 50 \text{ Pa}$
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	

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 air and water penetration through the window/ door perimeter gap or full façade 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.
- 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

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 bonded back to the substrate to maximise the adhesive bond when using SP025.

Window Membrane (as a perimeter or linear seal):

ME010 in slit widths is suitable for sealing window, door, curtain wall assemblies and other linear joints. When installed around window or doors ME010 is applied to all four sides of the glazed frame with the application starting at the sill, followed by the jambs, and finishing with the head. All membrane overlaps must be a minimum 100 mm and formed in a downwards direction to provide a robust seal.

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 perimeter membrane seal, please refer to "Application of illbruck membranes using paste adhesive", available on CPG UK website.

ME010 is bonded initially on the leading edge of the sill, jambs and head of the glazed frame using SP025 Fire Membrane Adhesive. The trailing edge is then lapped a nominal 100 mm (minimum 50 mm) onto the backing structure and bonded with SP025. To bond the membrane, a 10 mm diameter bead of adhesive should be applied 15 mm inside of the membranes edge and consolidated with a seam roller to achieve a 20 – 30 mm wide x 2- 3 mm thick continuous band around the membrane perimeter. When correctly installed, the adhesive will ooze out and be visible around the edge of the membrane. This excess sealant should not be scraped away or flattened as this can damage the membrane. The use of additional sealant around the

Window & Door Sealing Membrane

perimeter of the membrane is not required. Once installed, the membrane should be inspected and any noticeable voids, gaps or pin holes sealed with SP025. The minimum bond width for any application is an unobstructed 20 mm bonding zone around the entire perimeter frame. Where this is not possible, please consult CPG UK's technical department. An optional termination bar may be considered to provide mechanical retention of the membrane.

If the membrane interfaces with a third-party material such as sealants, hot melt, torch-down or cold applied liquid waterproofing membrane, the compatibility of the SP025 should be confirmed by consulting with CPG UK technical department. When bonding SP025 to silicone-based sealants (e.g. on sheathing board joints), the area should be primed using illbruck AT140 Primer applied directly over the cured sealant areas.

At any door sills or low thresholds (such as balconies) where it has been assessed that there is a risk of standing water or long-term submersion of the membrane, please consult with CPG UK technical department.

When applying ME010 as both a window perimeter seal and to the façade, the window application should be completed first, followed by the façade application. 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.

For linear joint seals: a suitable width roll of ME010 is used, and bonded either side of the joint with SP025. The minimum overlap on either side of the joint should be a minimum of 30 mm.

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

For further information regarding SP025 adhesive please consult technical data sheet, available from website (www.cpg-europe.co.uk).

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.

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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