

Description

Version 1: ME010 Façade UV and Fire Membrane can be used as a breather membrane. It is a monolithic covering and is supplied on a 1500mm x 50m furred log and is applied to the substrates with the specially coated gloss face outermost. This is applied directly over thermal insulation or to the sheathing boards to provide protection to the built up wall layers in a closed, open, or partially open façade. ME010 Façade UV & Fire Membrane as a breather membrane has Class B-s3,d0 Reaction to Fire according to EN 13501-1 when applied to substrates of at least a Class A2-s1,d0 Reaction to Fire.

Version 2: ME010 Façade UV & Fire Membrane is available in various slit widths from 60mm to 450mm as standard (as shown in the picture). This variant can be used as a membrane seal to the external perimeters of glazed units such as windows, doors, and curtain walling to provide a reliable air and water tight but breathable seal to the construction joint between the frame and backing wall. This variant is also used to close and seal the horizontal and vertical linear joints between sheathing boards and the main structure. When bonded to the glazing frame and structure with illbruck SP025 Fire Membrane Adhesive, the combination has Class B-s1, d0 Reaction to Fire according to EN 13501-1.

Both variations of ME010 are often used together to form a fully conjoined barrier layer around the building envelope and structural openings that is consistent with the Building Regulations Approved Document L and BS 5250 The management of moisture in buildings-code of practice.

Colour

Black

Packaging

Item No.	Roll Width* (mm)	Roll Length (mm)	Rolls/Box
398872	1,500	50m	1
500932	60	50m	1
500931	100	50m	1
500930	150	50m	1
500929	200	50m	1
500928	250	50m	1
346531	300	50m	1
500927	350	50m	1
346532	400	50m	1

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



ME010

Façade UV & Fire Membrane

Usage / Purpose

ME010 is a permanently UV stable specially coated polyester based, airtight, water tight and vapour permeable membrane that is compliant with the regulatory requirements of Approved Document B, Part B4 Regulation 7 making them highly suited to use on “Relevant Buildings”.

Available in two versions- as a breather membrane applied directly over thermal insulation or to sheathing board. Also, available as a slit version membrane seal to the external perimeters of glazed units.

Key Benefits

- Permanently UV-resistant
- Reaction to Fire Class B
- Easy to apply, fold, and manipulate
- Weathertight after 24 hours to EN 1928 and resistant to wind driven rain
- Highly airtight - Passiv Haus levels of tightness can be achieved
- Breathable (vapour-open)
- High range of in-service temperature resistance
- Environmentally friendly EC1+

Façade UV & Fire Membrane

Technical Information

Property	Standards	Result
Grammage	EN 1849-2	Approx. 160g/m ²
Thickness	EN 1849-2	Approx. 0.5mm
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 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 $\pm 15\%$
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. 100 / 120 N $\pm 15\%$
Vapour Diffusion - Equivalent Air Layer Thickness	EN ISO 12572	Sd-value: Approx. 0.04m
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	<-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	

Application

Version 1 as a breather membrane: ME010 Façade UV & Fire Membrane is applied horizontally directly from the furled log and the application usually starts from the lower floors of the construction with subsequent layers over lapping one another by the specified 100mm. Each ascending layer is sealed to the substrate around

the perimeter and to itself with the illbruck ME315 Total ProtectionTape. ME010 Façade UV & Fire Membrane should be applied in strict accordance with the illbruck method statements for “Application direct to sheathing boards” or “Application over thermal insulation”.

Version 2: ME010 Façade UV & Fire Membrane in slit widths is suitable for Window, Door Curtain wall and other Linear Joints.

For windows and curtain walling:

- For window door and curtain wall applications ME010 Façade UV & Fire membrane is bonded initially on the leading edge of the sill, jambs, and head of the glazed frame with SP025 Fire Membrane Adhesive. The trailing edge is then lapped back to the backing structure and bonded on the trailing edge with SP025 Fire Membrane Adhesive. The initial bond to the glazed frame requires a minimum of 20mm of unobstructed surface area around the entire perimeter of the frame. The bonded lap to the backing wall should be no less than 50mm but no more than 100mm under normal conditions. ME010 is applied to all four sides of the glazed frame with the application starting at the sill in a punched whole window or similar arrangement.

For doors:

- For door applications (with or without side lights) situated over cast in-situ cantilevered or inset balconies, applications at the ground to above ground horizon or over terraces, walkways, or other decks ME010 is applied to three sides, head, and jambs.
- At the sill or threshold where it has been assessed that there is a risk, however remote, of the possibility of long term submersion due to ponding of static water, ME010 Façade UV & Fire Membrane is usually substituted with illbruck ME220 EPDM, a synthetic rubber membrane. Under these circumstances the sill or threshold section of the membrane is usually required to interface with a third party hot melt, torch-down or cold applied liquid water proofing membrane which cannot physically achieve the required minimum Class B-s3,d0 Reaction to Fire. Therefore, it is very unlikely that when ME010 Facade UV & Fire Membrane or any other perimeter sealing membrane is applied to this type of condition that it would be able to comply with the requirements of Approved Document B, Part B4 Regulation 7. Whilst this condition appears to be contrary to the requirements of Approved Document B it is an immovable and often overlooked fact that to date has not been well documented. However, this situation only applies to details that have been assessed as being at risk (in terms of water ingress) at the request of certain Building Warranty providers but if there is no risk, the alternative approach does not apply and neither does it apply to punched hole window applications.

Façade UV & Fire Membrane

For linear joint seals:

- For sealing over linear joints a 100mm or 150mm wide ME010 Façade UV & Fire Membrane is used and bonded either side of the joint with illbruck SP025 Fire Membrane Adhesive.

For applications using a paste adhesive:

- In all cases when applying any illbruck perimeter or linear joint sealing membrane with a paste adhesive such as SP025 Fire Membrane Adhesive, the proportions used and positioning of the paste adhesive must be consistent with the clearly written illbruck method statements.
- The adhesive is applied as a uniform 10mm diameter bead and placed directly on to the substrates 15mm inside of each edge of the membrane. To ensure a firm and long lasting attachment the membrane and adhesive are consolidated by applying pressure with seam roller until 2mm-5mm of adhesive "squeeze out" is visible along the membrane edge. The squeeze out is left intact indicating that the correct amount of adhesive has been applied, in the right location and has been adequately consolidated forming a combined edge seal and a bond between the surfaces. The squeeze out should not be scraped away, flattened out or additional beads laid over the top.
- Applicators are advised to obtain full onsite training and obtain the relevant method statements in addition to reading the Technical Data Sheets.

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.

Please Note

- The technical performance of ME010 in both variants has been independently assessed according to the relevant EN Harmonised Standards both as new and after ageing, with performance of the aged membrane verified far in excess of 75% of the as new condition.
- 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.
- 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. Avoid leaving the trailing edge open to the effects of wind



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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