Technical Data Sheet

ME508

Duo Membrane EW/F

High-Tack Self Adhesive Airtight Window & Door Sealing Membrane *30-10-2026 / V 2*

Description

ME508 is a non-woven fleece laminate with self-adhesive for optimum adhesion and vapour control. The combination of self-adhesives provide options for installing to the window frame edge (W) or face (E), providing air and weathertightness. Part of the intelligent membrane range, ME508 also benefits from humidity variable vapour permeability.





Features and Benefits

- Quick and easy application with split release liner
- Highly flexible fleece
- Weathertight
- Suitable for retrofit
- Initial repositioning possible, bond strength increases over time
- Airtight and vapour variable
- Allows over plastering/rendering without cracking.

Usage Purpose

Part of illbruck's intelligent membrane range, ME508 provides excellent air tightness to Passivhaus standards whilst allowing water vapour to diffuse out to the exterior of the building, ensuring no moisture build up which can lead to mould and mildew. Strong and reliable self-adhesive, allowing bonding to a range of substrate types (eg masonry, concrete, PVC, metal, wood, and all usual insulation materials (EPS, XPS, PUR rigid foam), making application fast and simple. The combination of self-adhesives provide options for installing to the window frame edge (W) or face (E), providing air and weather tightness. For best results, should be used as part of the illbruck i3 window sealing system.

Areas Of Application

Used for sealing window or door connection joints, internally or externally. Strong and reliable self-adhesive, allowing bonding to a wide range of substrates, making application fast and simple.

Can be used as an internal airtight seal in conjunction with ME501 Duo Window Membrane HD or VV externally, and/or as an external weather-tight seal with 1050 Pa driving rain resistance. Complies with the “inside tighter than outside” principle in order to facilitate moisture and vapour control.

Available Colour

Black.

Shelf Life

24 months when stored as recommended in original unopened packaging.

Technical Data Sheet

ME508

Duo Membrane EW/F

Storage

Store in shaded, dry conditions, not exposed to direct weathering and UV-radiation.

Packaging

Item No.	Roll length	Roll width	Rolls/Box
501392	75 m	EW-70	1
501393	75 m	EW-100	1
500252	25 m	EW-140	2
500290	25 m	EW-200	1
500540	25 m	EW-250	1

Membrane thickness: 0.5 mm

Technical Characteristics

Reaction To Fire	EN 13501-1	Class E
Resistance To Water Penetration	EN 1928	Class W1
Resistance To Driving Rain	EN 1027	1050 Pa
Water Vapour Transmission	DIN EN ISO12572	Variable sd value
Air Permeability	EN 1026	≤ 0.1 $m^3/m^2.h@50$ Pa
UV Stability		9 months prior to covering
Compatibility With Construction Materials	DIN 52452	Fulfills requirements
Application Temperature		-5°C to +40°C
Service Temperature		-40°C to +80°C
Storage		Store in shaded, dry conditions, not exposed to direct weathering and UV-radiation

Necessary Tools

Tape measure, cutting shears and seam roller.

Preparation

The bonding surfaces must be dry, free of oil, grease, dust and other anti-adhesive components.

It is recommended that advice is sought or adhesion tests are undertaken to establish if there is a requirement to use an illbruck primer to enhance the bond to certain substrate types.

Priming

ME508 can be applied without the use of a primer in many circumstances; however, for best results, it is recommended that ME508 is applied with either ME901 or AT140 paint-on primers.

Use AT140 primer to apply ME508 on porous substrates or in ambient temperatures lower than 5°C, in damp conditions AT140 or ME901 Primer can be used.

Technical Data Sheet

ME508

Duo Membrane EW/F

Note: ME508 is suitable for bonding to EPS/XPS thermal breaks on balcony support brackets and specialist forms of EPS/XPS building systems such as Nudura ICF Formwork. The high strength acrylic dispersion adhesive coating used with ME508 does not contain solvents that would otherwise attack the EPS/XPS. If a primer is necessary use ME904 as a solvent free, acrylic copolymer primer.

Please read and understand the technical and safety datasheets before applying these products.

Application

ME508 is applied in accordance with illbruck best practice, specification guidance and method statements. For a detailed step by step guidance on applying ME508 as a internal or external perimeter window or door membrane seal or with wet plaster/render, please refer to the application guides available on Tremco CPG UK website.

The bond should be a minimum 20 mm to the window/door frame and 100 mm to the backing substrate. Once applied, the membrane should be full consolidate using a stout seam roller, avoiding any wrinkles or creases.

ME508 can be bonded in the 'E' and 'W' formats as shown in Figures 1 & 2 of the datasheet. When bonding in the 'E' format (Figure 1) peel off the protective split liner of the self-adhesive on the side of the membrane facing the frame, allowing some slack in the membrane retained within the joint. When bonding in the 'W' format (Figure 2) peel off the liner from the narrow self-adhesive and bond to the outer edge of the window frame in a suitable location (to the flat profile rather than across profile ‘legs’) in this format the membrane must be applied to the window prior to installation.

For all applications, the installation should start at the sill, followed by the jambs and finally the head of the window or door, all overlaps must be formed in a downwards direction. Where a breather membrane or AVCL has previously been applied to the backing wall, cut back to the line of where the perimeter membrane will locate against the backing wall to enable bonding directly to the sheathing board (or similar).

Silicone based sealants and fire rated compounds used to seal butt joints between sheathing boards are a barrier to adhesion for any adhesive. Use AT140 primer on such substrates. Special preparation is required - please consult with an CPG UK representative.

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

Technical Data Sheet

ME508

Duo Membrane EW/F

Health And Safety Precautions

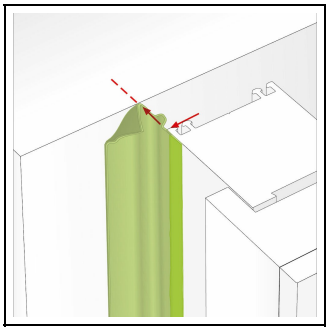
Safety data sheet must be read and understood before use.

Technical Service

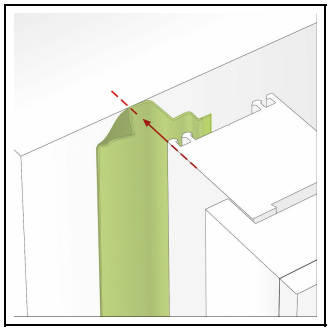
Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Certification

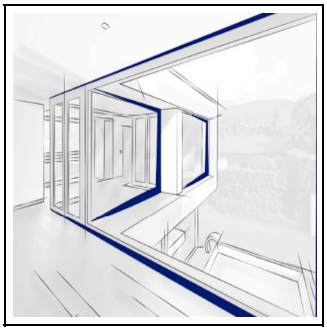
Application Images



1.



2.



3.

Tremco CPG UK Limited
Coupland Road, Hindley Green
Wigan, WN2 4HT
United Kingdom
+44 (0)1942 251400
hello@tremcocpg.com