

Technical Data Sheet

## ME508

### Duo Window Membrane EW/F

*High-Tack Self Adhesive Internal Airtight Window Sealing Membrane*

24-09-2024 / V 1

#### 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 weather tightness. 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
- Weather tight
- Suitable for retrofit
- Initial repositioning possible, bond strength increases over time
- Airtight and vapour tight
- Allows over-plastering without cracking.

#### Usage Purpose

For Interior Use: 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 virtually any substrate (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.

#### Packaging

Item No. Roll Length Roll Width Rolls/Box  
 50139275 mEW-701  
 50139375 mEW-1001  
 50025225 mEW-1402  
 50029025 mEW-2001  
 50054025 mEW-2501  
 Membrane thickness: 0.5 mm

#### Available Colour

Black

#### Storage

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

## Technical Data Sheet

# ME508

## Duo Window Membrane EW/F

### Technical Characteristics

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

### 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 in ambient temperatures lower than 5°C.

Use AT140 Primer on friable substrates – note the flash-off time.

Use AT140 or ME901 Primer in slightly damp conditions.

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 Block. The high strength acrylic dispersion adhesive coating used with ME508 does not contain solvents that would otherwise attack the EPS/XPS. If necessary use ME904 solvent free, acrylic copolymer primer.

\*\* Please read and understand the technical and safety datasheets of these products

### Areas Of Application

For Interior Use: 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 virtually any substrate (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.

Used for sealing window connection joints, internally or externally. Strong and reliable self-adhesive, allowing bonding to virtually any substrate (e.g. masonry, concrete, PVC, metal, wood, and all usual insulation materials (EPS, XPS, PUR rigid foam)), 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. Strong and reliable self-adhesive, allowing bonding to virtually any substrate (e.g. masonry, concrete, PVC, metal, wood, and all usual insulation materials (EPS, XPS, PUR rigid foam)), 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.

### Preparation

The bonding surfaces must be dry, free of oil, grease, dust and other anti-adhesive components. For guaranteed adhesion it is advisable to use illbruck ME902 primer (note the flash-off time). Similarly, in slightly damp conditions, use ME904 primer.

Bonding in 'E' format (Fig. 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.

## Technical Data Sheet

# ME508

## Duo Window Membrane EW/F

Bonding in 'W' format (Fig. 2): - peel off the liner from the

Bonding in 'E' format (Fig. 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.

Bonding in 'W' format (Fig. 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 flat profile rather than across profile 'legs'). Must be applied to the window prior to installation. narrow self-adhesive on the printed face of the membrane and locate onto the outside edge of the frame in a suitable location

## Application

Attachment to the Window – External For punched hole windows, the application method is essentially as for internally above SFS FRAMED & SHEATHED WALLS (windows projecting forwards into the cavity zone)

Measure and pre-cut individual lengths of ME508 appropriate to sill, jambs and head to match the window dimensions and the additional overlap at each end equal to the width of the membrane in use.

Starting at the sill, dry fit the membrane with the release liners still attached and mark the front edge of the membrane at the window extents.

Fold the membrane upwards to form a 90° angle tucking it up under the sill and the remaining membrane placed against the sheathing board or concrete, also at a 90° angle.

Make a mark where the lower/outer edge of the membrane will terminate on the sheathing board or other substrate.

Using an appropriate long straight edge or other device such as a laser level, draw a line to indicate where the membrane will terminate to use as a guide to levelling on the substrate.

Remove the single, narrower release liner on the non-printed face of the membrane and position the self-adhesive strip on a suitable flat surface of the sill profile (the printed face should be facing the exterior). Bond the membrane to the sill with an ideal minimum 20mm of self-adhesive contact. Attachment to the Wall

Now remove the wide dual release liners (one at a time)\*\* and bond the membrane to the sheathing board or other substrate using your marked out line as guide to ensure a neat and level finish. The membrane should now be at a 90° "L" shape with the un-bonded extensions at either end resembling a tube.\*\* Membranes with dual release liners: Remove the one adjacent to the narrower strip first. Bed down and bond onto substrate. Then remove second (outer) release liner, bed down and bond onto substrate. Forming the First Layer of the Corner Seal

Starting at one end, and using the printed lines and graphics of the outward face of the membrane as a guide, slit the loose end of the membrane extension along horizontally until it is level with the bottom of the window frame. Take care not to slit too far or too short.

Slitting will form a flap which will be folded upwards and bonded to the side of the frame at the jamb. The lower remaining section is bonded flat to the substrate.

Once bonded repeat the same actions on the opposite end.

Now apply firm pressure with an illbruck AB004 VV seam roller to all membrane surfaces to fully bed down the self-adhesive and remove / flatten any wrinkles on either the window frame profile or construction substrate. Jambs and Head

Now remove the wide dual release liners (one at a time)\*\* and bond the membrane to the sheathing board or other substrate using your marked out line as guide to ensure a neat and level finish. The membrane should now be at a 90° "L" shape with the un-bonded extensions at either end resembling a tube. Alternative Application Strategy.

Sometimes it may be more expedient to form the corners separately to the main run of membrane. In this case, cut a suitable length of ME508 (circa 150mm) and twist the membrane on the narrow self-adhesive strip to form a corner shape. Apply one to each corner of the window, removing each release liner as you apply it to the frame. The ME508 can then be run from corner to corner in single runs, allowing a 50mm overlap onto the pre-applied corners.

If the window fixing straps interfere with enabling the membrane to be applied in a single run, or if they may prevent the achieving of a satisfactory seal, consider cutting out suitable size patches of membrane and covering the straps. The main run

## Technical Data Sheet

**ME508****Duo Window Membrane EW/F**

of membrane can then be applied either side of the patches, ensuring appropriate overlap onto the patches (min. 50mm). Inspecting the Completed Application

The completed application should resemble a picture frame border to the installed window.

Check the cuts and folds at all of the corners and ensure that there are no gaps. If any imperfections or small holes are visible cut a small patch from the membrane roll and use it to cover the imperfection. Please note that the self-adhesive used with this membrane is very strong and will grab to almost any surface more or less instantly, particularly your gloved hand! For optimum performance, try to minimise hand contact with the exposed self-adhesive layer to prevent it from picking up dust and debris which can reduce the effectiveness of the adhesive bond. Take care not to create longitudinal stress during application (avoid stretching along the length). When creating vertical overlaps, bond the upper membrane length onto the lower.

**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.

**Health And Safety Precautions**

Safety data sheet must be read and understood before use.

**Technical Service**

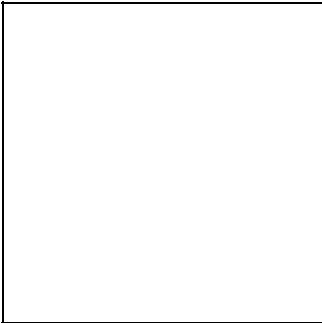
Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Technical Data Sheet

## ME508

### Duo Window Membrane EW/F

#### Application Images



1.

#### Certification



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