

## Technical Data Sheet

# ME020

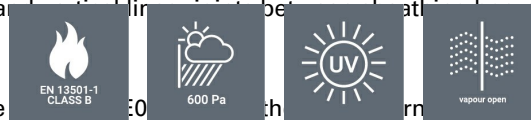
## FR Window & Door Sealing Membrane HD Self-Adhesive

Class B, W1+ Window & Door Sealing Membrane

18-12-2024 / V 2

### Description

illbruck FR Window & Door Sealing Membrane HD SA (ME020), is a Class B, self-adhesive, permanently UV resistant, high strength polyester, airtight and fully watertight membrane used as a perimeter membrane seal to the external side of glazed units such as windows and doors. When correctly installed, 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 joints between glazing units and the main structure.



FR Window & Door Sealing Membrane HD SA (ME020) meets the requirements for membranes installed on "relevant and higher risk" building types as defined in Approved Document B of the Building Regulations for England and Wales.

### Features and Benefits

- Self-adhesive for fast and easy application
- Class B-s1-d0 to EN 13501-1
- Permanently UV resistant
- Easy to apply, fold, and manipulate
- Watertight to EN 1828 at a 2 kPa head of water
- Airtight and can achieve Passiv Haus standards.
- High range of in-service temperature resistance
- Environmentally friendly EC1+
- Highest strength

When used in conjunction with a compatible illbruck FR Breather Membrane, FR Window & Door Sealing Membrane HD SA (ME020) achieves the criteria for Class W1 in accordance with EN 13859-2 and also remains watertight when tested over for an extended 24 hours test duration.

### Packaging

Available in the below size (Roll Width (mm) x Roll Length (m)). All items are supplied in a single unit.

illbruck's FR Window & Door Sealing Membrane HD SA (ME020) should be bonded back to the frame and substrate using the integral self-adhesive backing and can be used in conjunction with a compatible illbruck FR Breather Membrane to provide a full façade solution. When used together they form a continuous weather and airtight barrier around the full building envelope including structural openings.



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250 x 50

300 x 50

350 x 50

400 x 50

### Available Colour

Black

### Product Details

Item nr.	Roll width in mm	Roll length in m
510915	60	50
510916	100	50
510917	150	50
510918	200	50
510919	250	50
510920	300	50
510921	350	50
510922	400	50
510923	450	50
510924	500	50
510925	600	50
510926	800	50

### Technical Characteristics

Grammage	EN 1849-2	Nominal 270 g/m <sup>2</sup>
Thickness	EN 1849-2	Nominal 0.45 mm
Dimensional Stability	EN 1107-2	< 1%
Fire Classification	EN 13501-1	Class B-s1, d0 when installed directly over a mineral substrate with a fire Classification of A1 or A2-s1, d0 and a density ≥ 652.5 kg/m <sup>3</sup> bonded to the substrate with the integral self-adhesive strips.
Resistance To Water Penetration	EN 1928 (EN 13859-2)	Class W1 (before and after ageing) Class W1+ after an extend 24 hours test duration
Tear Resistance	EN 12310-1	Longitudinal > 160 N Transverse > 190 N
Driving Rain Resistance	EN 1027	> 600 Pa
Water Vapour Resistance	EN ISO 12572	< 0.60 MNs/g
Water Vapour Transmission	EN ISO 12572	Sd < 0.12 m
Air Permeability	EN 12114	≤ 0.1 m <sup>3</sup> /m <sup>2</sup> .h@50 Pa
UV Resistance	EN 1296/97	Exposed - 12 months Covered - Permanent (including open joints max. 50 mm)
Application Temperature		+5°C to +30°C
Flexural Behaviour In Cold Conditions	EN 1109	-40°C

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Tensile Strength	EN 12311-1	Longitudinal: > 360 N/50 mm Transverse: > 240 N/50 mm > 75% (after ageing)
Elongation	EN 12311-1	Longitudinal: < 25% Transverse: < 25%
Service Temperature		-40°C to +100 °C
Storage		Store in shaded dry conditions between +5°C and 25°C, away from direct exposure to weather. Avoid stacking pallets.
Shelf Life		12 months when stored as recommended in original unopened packaging.

### Necessary Tools

Tape measure, cutting shears and seam roller.

### Preparation

Ensure surfaces are clean, dry, free from oil, grease, dust, debris and any other contaminants that may affect adhesion. To maximise the adhesive bond we recommend priming the substrate with a compatible illbruck primer.

### Application

FR Window & Door Sealing Membrane HD SA (ME020) is applied in accordance with illbruck best practice, specification guidance and method statements. For a detailed step by step guidance on applying FR Window & Door Sealing Membrane HD SA (ME020) as a perimeter membrane seal, please refer to the relevant application guide, available on Tremco CPG UK website.

A minimum 20 mm clear bonding zone is required to both the frame and substrate. Remove the backing liner and bond the membrane to the window/door frame first then consolidate the bond using a stout seam roller once the membrane is in place. Once in place repeat this process to bond the membrane back to the wall substrate.

When installed around windows or doors, FR Window & Door Sealing Membrane HD SA (ME020) 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.

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 FR Membrane Self-Adhesive Strips should be confirmed by consulting with Tremco CPG UK technical department. When bonding the membrane 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 Tremco CPG UK technical department.

When applying FR Window & Door Sealing Membrane HD SA (ME020) with an illbruck FR Breather Membrane full façade membrane, the window application should be completed first, followed by the façade application. The breather membrane

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should form an overlap which is sealed to the FR Window & Door Sealing Membrane HD SA (ME020) using ME316 Endurance Tape.

For linear joint seals, a suitable width roll of FR Window & Door Sealing Membrane HD SA (ME020) is used, and bonded either side of the joint. The minimum overlap on either side of the joint should be 50 mm.

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

For further information please consult technical data sheet, available from website ([www.tremcocpg.eu](http://www.tremcocpg.eu)).

### 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.

Tremco CPG UK Ltd shall not be held liable for any direct, indirect, incidental, special, or consequential damages arising out of or in connection with the use of the guidance/recommendations provided.

Tremco CPG UK Ltd reserves the right to modify or discontinue any recommendations at any time without prior notice.

### 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.



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