

CI/SfB	(31)	Ln6
CAW P10		
Uniclass L6631:P91		

Description

ME220 VV is an EPDM-based membrane used for sealing interfaces to provide airtight or weather tight seals. It is suitable for wide ranging application details. The material does not contain any solvents which could later migrate into adjacent surfaces.

Certifications

MPA Hannover – air and weather tightness (EN12114/EN1027)
Emicode – EC1 Plus

Colour

Black

Design

Membrane with embossed finish, wound on rolls and available in various widths. The membrane is fixed to the frame and construction substrates using the full face self-adhesive.

*Available in 100 - 300 mm widths in 50 mm increments.

Dimensions

Roll length	25 m
Thickness	0.75 mm
Width	50 - 1,500 mm
Cut rolls or full log	(1,500 mm)

Technical Information

Property	Test Method	Result
Fire Classification	EN 13501-1	Class E
Tensile Strength	DIN 53504	> 6.5 N/mm ²
Elongation at Break		> 300%
UV Resistance	DIN 53504	> 24 months
Water Vapour Resistance Factor (μ value)	DIN 52615	60,000
Moisture Vapour Permeability (sd value)	DIN 4108-3	45 m
Airtightness	EN 12207	> Class 4
Watertightness	EN 12208	> Class 9A
Resistance to Wind Loading	EN 12210	> Class 3
Dynamic Puncture Resistance	EN 12691	tight (10 mm punch)
Peel Adhesion (180°) to Steel, Concrete, Brick & Wood	EN 1939-1	F _{mean} Minimum 25.40 N/25 mm
Static Puncture Resistance	EN 12730	> 250 N
Static Puncture Resistance	EN 12310-1	120 N
Flammability Class	DIN 4102-1	B2 P-NDS04-531
Temperature Resistance		-40°C to +100°C (+130°C short term)
Application Temperature		+5°C to +35°C
Storage	Store in dry shaded conditions between +5°C and +25°C.	
Shelf Life	Unlimited when stored as recommended in original unopened packaging; 24 months with self-adhesives.	

Necessary Installation Tools

Installation requires the following: tape measure, scissors or illbruck shears, sharp knife and seam roller.



ME220 VV

EPDM Membrane

Usage / Purpose

ME220 VV EPDM membrane is used for sealing the connecting joint between a window/curtain walling and an adjacent structure (e.g. a wall, concrete panel, steel frame, etc.), providing air and weather tightness.

The membrane is fixed to frame and construction using the full face self-adhesive.

If an internal and external membrane is required, in order to meet the principle of 'inside tighter than outside', ME220 VV should be located as the inner membrane and ME501 Duo Window Membrane HD or ME501 VV as the outer membrane. This will ensure that the inner seal is more vapour tight than the outer which will facilitate drying out of any entrapped moisture between the two layers.

Key Benefits

- High resistance to mechanical damage
- High performance full face self-adhesive backing for quick and easy fixing
- Excellent movement capability in both transverse and longitudinal direction with excellent material recovery after elongation
- Excellent weathering, ageing and UV radiation resistance
- Excellent moisture vapour barrier

Surface Preparation

- The substrate surface must be dry, degreased, and free of dust and loose particles, which could negatively affect adhesion.
- It may be required to prime the substrate if porous, damp, dusty or when ambient temperatures are < 5°C. In such cases use ME901 or ME902 Butyl & Bitumen Primer (brush or spray grade respectively) or ME904 Adhesive Tape Primer.

Application

- The width of the membrane must be determined with full consideration of the façade or window detail including the interior and exterior sides of the connection joint.
- The final solution must always take into account project requirements, dilatation of structures, operating load and application difficulty of individual products.
- The recommended overlap width between membranes and porous materials (concrete, brick, etc.) is a minimum 100 mm.
- Bonding onto particularly porous materials is best achieved with plain ME220 using CT113 Adhesive which is applied by brush or roller in an even layer to BOTH bonded surfaces (see Fig. 2).
- After applying the adhesive, allow to flash off (approximately 10–15 min, using finger touch test). This is very important to ensure good adhesion. After flashing off, both bonded surfaces must be connected and the upper membrane layer pressed down firmly using a seam roller. Depending on porosity of the substrate, a primer coat of diluted CT113 with AW421 (1:3 ratio by volume) may be necessary prior to application of neat CT113 as above.
- Recommended overlap width between membranes and non-porous materials is approximately 20- 30 mm.
- For ensuring robust air and weather tight seals at the membrane corner joints, illbruck ME241 EPDM Corners should be used (see Fig. 1). For full application details, please consult ME241 TDS.
- For head details, it is recommended to use a metal

clamping strip together with min. 100 mm overlap of the membrane to prevent attack of running water (most commonly a window or façade head detail on ventilated cladding structures before a connecting joint is covered).

- Seal the upper edge of the strip at an angle of 45° using OT015 adhesive. (see Fig. 2).
- A metal clamping strip may also be necessary on other applications to enhance the fixing of the membrane to the window frame.
- Irrespective of bonding method, ensure that the membrane is located in a tension-free state and all adhesive bond lines/areas are consolidated with a seam roller.

Please Note

This data sheet should be read in conjunction with those for associated products (e.g. ME220, OT015, CT113 and ME241 EPDM Corners).

Health & Safety Precautions

Safety data sheet must be read and understood before use.



Fig 1: ME241 EPDM Corner, shown bonded after ME220 VV application (bond with OT015)

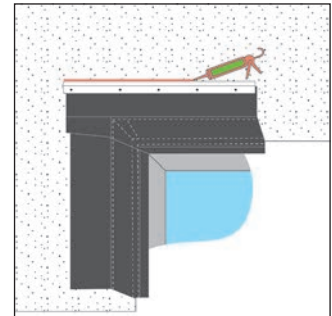


Fig 2: Final Stage – Clamping strip sealing with OT015 Paste Adhesive

Technical Service

tremco illbruck 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 illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with tremco

illbruck written instructions and (b) in any application recommended by tremco illbruck, 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 illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.



tremco illbruck Limited
Coupland Road, Hindley Green
Wigan WN2 4HT
United Kingdom
T: +44 1942 251400
F: +44 1942 251410

sales.uk@tremco-illbruck.com
www.tremco-illbruck.co.uk