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

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Description

ME501 is a high strength, tear resistant membrane made from polyethylene copolymer film with non-woven fabric. It can be applied before or after window installation to suit on-site details and programming. It is also available with gasket options for fixing to profile.
The product meets the recommendations of the RAL Quality Assurance Association for windows and doors. Successfully tested by MPA Hannover to EN1026 (airtightness) & EN1027 (weathertightness). The membrane is attached to the window with SP525 adhesive or gasket and to the construction reveal material with SP525 adhesive.

Product Variants

- ME501 Duo Window Membrane HD – membrane slit to required width, without adhesive (use SP525 to bond to frame and structure).
- ME501 Duo Window Membrane HD – standard widths of 150 mm & 300 mm, with gasket (use SP525 to bond to structure). There are four gasket options – see 'Gasket Options' on next page.

Colour

Black

Packaging

ME501 Duo Window Membrane HD is supplied on 25 m rolls.

Dimensions

- Slit to width 60 - 1,500 mm
- Length Tolerances to DIN 7715 P3
- Width dimensions to tolerance ± 2.5 mm.

Application - Bonding with SP525 Adhesive After Frame Installation

(suitable for single windows and curtain walling/multiple coupled windows)

- Apply a 10 mm diameter bead of Tremco SP525 adhesive approximately 15 mm from one edge of the back (shiny) face of membrane and bond to the window frame face or edge (ensure frame is dry and clean), compress to approx 30 - 35 x 2 mm.
- Consolidate bond with seam roller. Take care not to allow adhesive to exude out from edge of membrane and potentially stain frame.
- Apply a similar bead of adhesive to the opposite edge of membrane and bond to the construction material (ensure dry and clean), compress to achieve adhesive bead of approx 30 - 35 x 2 mm. Use a seam roller to consolidate bond.

NOTE:

- For further information regarding Tremco SP525 adhesive, please consult technical data sheet, available from website (www.tremco-illbruck.co.uk)
- For thermal and/or acoustic insulation to the window/ construction interface, we recommend illbruck FM230 Window Seal Foam to be applied into the perimeter gap.

ME501

Duo Window Membrane HD

Usage / Purpose

Provides a high performance seal to the perimeter joint between the window/ curtain wall and the construction reveal. Due to the variable sd-value, the membrane is suitable for interior and exterior use and can provide an airtight or weathertight (but vapour permeable) seal.

Key Benefits

- Complies with principle of 'inside tighter than outside' in order to facilitate efficient vapour control
- Excellent drying potential (due to the membrane's vapour permeability) avoiding mould growth and physical damage
- UV stable - will tolerate up to 9 months direct exposure prior to covering

i3 by illbruck

"i3" Window Sealing System
Part of the state of the art, ift-approved sealing system, with a 10 year guarantee.* This system fulfils the EnEV requirements with regards to airtightness.

*Under the conditions specified by the manufacturers. Only valid on receipt of the correct registration documents in accordance with terms and conditions, available on request.

ME501

Duo Window Membrane HD

Gasket Option

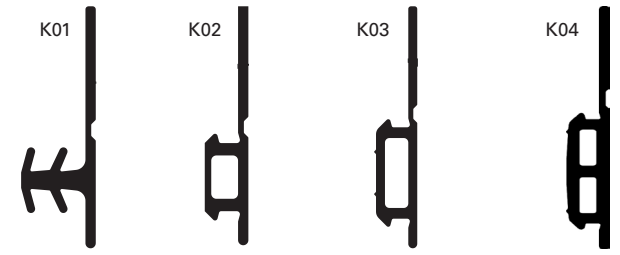
As an alternative fixing method to the frame, there are four gasket options which can be used, dependent on a suitable groove on the frame profile. The gasketed membrane is fixed to the construction material using SP525 Adhesive as in previous application details above.
ME501 Duo Window Membrane HD is the world's first intelligent (sd variable) window membrane with gasket attachment and RAL approval. This guarantees highest quality and durability and the air tightness and weather tightness performance can be maintained.
When using the gasket fixing option, if the frame is being installed into a reveal, the membrane will need to be applied prior to installation. If installing where the frame projects forward of the opening, the membrane can be applied after installation.

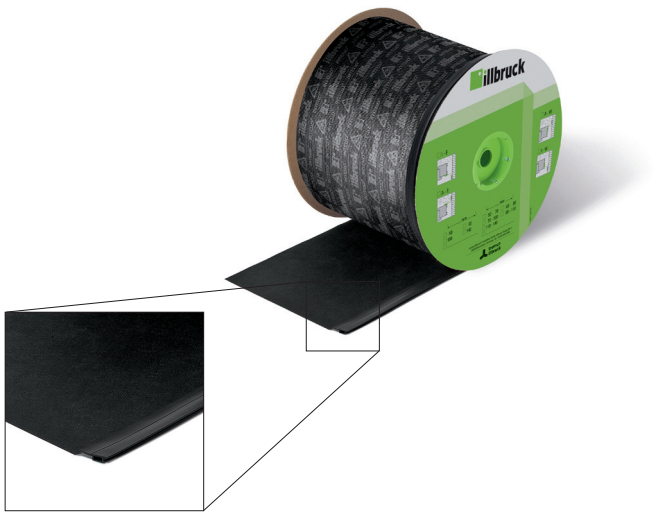
Benefits

- Weather and surface-independent attachment to the window
- Four gasket options to suit most window/curtain walling profiles
- High security
- RAL-tested

Gasket Dimensions

Gasket Type	Minimum Groove Depth (mm)	Groove Width (mm)
K01	Approx 6.5	Approx 3 - 5
K02	Approx 4.0	Approx 5 - 7
K03	Approx 4.0	Approx 7 - 10
K04	Approx 4.0	Approx 13 - 15





Technical Information

Property	Test Method	Result
Building Material Class	DIN 4102	B2 (ABP P-NDS04-776)
Water Vapour Permeability	EN ISO 12572	sd value between 0.21 and 15 m, depending on average atmospheric humidity, and acts as an intelligent vapour barrier
Weathertight Against Driving Rain	EN 1027	> 600 Pa
Airtightness	DIN 18542 EN 1026	< 0.1 m^3/[h m (daPa)n]
Adhesion of the Self-Adhesive	AFERA 4001 P11	minimum 12 N/25 mm
Compatibility with Traditional Building Materials in Contact	DIN 18542	Passed
UV Resistance of the Non-Woven Film Composite (Non-Woven Composite, Weathered Fleece Side Free)		9 months
Temperature Resistance		-40°C to +80°C
Processing Temperature		+5°C to +45°C
Storage Period		1 year

Please Note

- SP525 adhesive is a 'green' alternative to traditional polyurethane sealants/adhesives and does not contain solvents or isocyanates and is a very low odour material. The product is supplied in 400 ml foils which results in easy disposal.
- Contact with certain construction materials may result in interactions. Compatibility must be tested in individual cases. Please consult separate technical data sheet for further information.
- Bonding to wall and frame surfaces: surfaces must be dry and free of oil, grease, dust and other anti-adhesive components. Do not apply ME501 Duo Window Membrane HD in temperatures below 5˚C.
- Certain substrates may require priming- this should be checked in advance of application.
- If intending to apply wet finishes over the membrane, ensure application to the non-shiny 'fleece' face. For large areas and improved adhesion of the wet finish, a plaster mesh version of illbruck ME501 Duo Window Membrane HD is available, subject to minimum order quantity and 3 weeks delivery.
- ME501 should always be installed with the non-shiny (fleece face) 'as seen'. This is to ensure UV resistance for up to 9 months and to facilitate over –plastering. If the shiny face is installed 'as seen', the air and weather tightness properties will not be affected but the membrane must be covered within 2 weeks to avoid UV degradation.

Health & Safety Precautions

Safety data sheet must be read and understood before use.

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Duo Window Membrane HD

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 0191 419 0505.

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
3A Walton Road, Pattinson North
Washington NE38 8QA
United Kingdom
T: +44 191 419 0505
F: +44 191 419 2200

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

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