



Product Verification

Sustainability

according to BNB BN 2015

according to BREEAM International New Construction 2016

according to DGNB NBV 2015

according to DGNB Gebäude Neubau 2018

according to LEED Building Design and Construction V3 (2009)

according to LEED Building Design and Construction V4 (2015)

Winflex® Optima es Vario is a special membrane for fast and reliable sealing of installation joints on windows and exterior doors as recommended by RAL Quality Assurance Association installation guidelines for windows and doors and as per DIN 4108-7. Winflex® Optima es Vario distinguishes itself especially by its extreme 12-month UV stability. This means that the tape will survive even building stops without damage.

Winflex® Optima es Vario allows installation joints to dry out from the inside or from the outside, depending on weather conditions, since the Winflex® Optima es Vario water vapour diffusion characteristics allow it to flexibly adopt to variable physical conditions of the building structure, thus assisting optimal drying of the installation joints. The same Winflex® Optima es Vario tape will be suitable for internal and external sealing, since it will prevent all moisture from penetrating the joint.

The full-surface self-adhesive reverse side of the tape has a BOSIG High Tack adhesive coating. This adhesive has extremely strong adhesive properties. This will allow processing even at low temperatures. The split foil covering this self-adhesive layer renders its application particularly simple and time saving.

Winflex® Optima es Vario may be plastered and painted over and will be fully concealed after installation.



Winflex® Optima es Vario will offer you the following advantages:

- the same tape to seal internal and external installation joints – no risk of confusion, reliable planning, stocks reduced by half
- optimal drying of the installation joint
- 12 months of UV resistance
- many types to suit all installation conditions
- durably seals installation joints
- can be plastered and painted over
- no fluid adhesive systems to dirty window surfaces
- completely solvent-free
- good compatibility with acrylic glass and polycarbonate
- strong adhesion of the adhesive strip to all types of window frames
- full-surface self-adhesive tape reverse side coated with BOSIG High Tack adhesive and split foil cover for easy application,
- perfect handling and optimal workability due to soft and pliable consistency and many types, with and without self-adhesive strips, to suit all structural conditions
- no additional adhesives required for application, rendering application particularly easy and time-saving
- suited especially for timber frame construction

Technical data:

Colour		black	
Base		high-grade Polymer membrane, coated with fibrous web	
Thermal stability		- 40°C to + 80°C	
Application temperature		recommended: + 5°C to + 35°C, possible from -10°C	
UV resistance when exposed to the elements		max. 12 months	
s _d value		0.3 to 30 m, depending on ambient humidity	based on DIN EN ISO 12 572
Fire behaviour		Classification E, normal flammability	DIN EN 13501 – 1
Width		70, 100, 150 mm	
		Other widths of 50 mm to 500 mm available on request	
Length of roll		40 m	
Max. tensile force	longitudinally	ca. 240 N / 5 cm	DIN EN 12311 – 2
	transverse	ca. 160 N / 5 cm	
Elongation	longitudinally	ca. 190%	DIN EN 12311 – 2
	transverse	ca. 220%	
Air tightness		airtight	DIN 4108
Air tightness		$a < 0.1 \text{ m}^3 / (\text{m} \cdot \text{h} \cdot (\text{daPa}^{2/3}))$, airtight	Q100 – DIN 4108, based on DIN EN 1026
Tightness for driving rain		$\geq 1050 \text{ Pa}$	based on DIN EN 1027
Water tightness		Classes W1	EN 18359

Processing notes:

The surfaces to which the tapes are to adhere must be dry, free of oil, grease and dust, sound and fully stable. To install Winflex® Optima, it is necessary to smooth finish the inside of the embrasure as per DIN 4108-7. Especially when working at low temperatures, ensure that the surfaces to which the tapes are to adhere are free of frost and ice. It is necessary to prime the substrate in several cases, e.g. with absorbent substrates and / or for instance to stabilise friable surfaces. We recommend our **Multi Primer / Multi Primer for spraying** in such cases. Initial adhesive strength will be reduced when installing at temperatures of 0 to - 10°C. Although application will be possible at such temperatures, longer contact times will be required before the high ultimate strength is reached.

Winflex® Optima Duo:

Spool Winflex® Optima off the reel and cut to length with at least 5 cm to spare. Peel the cover foil off the self-adhesive strip and press the strip to the back of the window frame. Do this for all sides of the window that need sealing. Now align and fasten the window frame. Fill the cavity between window and wall with the requisite amount of insulating material. Our **Combband 600** will here be fit for purpose.

Peel off the split protective foil covering the full-surface self-adhesive coating as required and carefully press the tape onto the substrate. Ensure that the tapes overlap at the corners. Ensure optimum initial adhesion by using a pressure roller.

Winflex® Optima Mono:

Align and fasten the window element and fill the cavity between window and wall with a suitable volume of insulating material. Our **Combband 600** will here be fit for purpose. Spool Winflex® Optima Mono off the reel and cut to length with at least 5 cm to spare. Peel off the split protective foil covering the full-surface self-adhesive coating as required and carefully press the tape onto the substrate and the window frame.

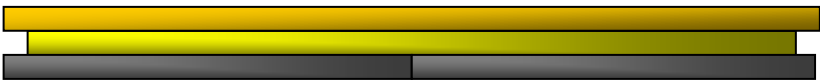
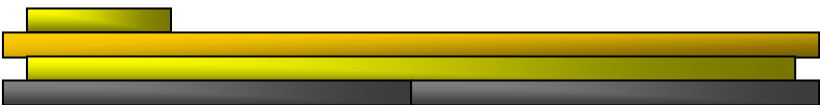
Ensure that the tapes overlap at the corners. Ensure optimal initial adhesion by using a pressure roller.

You can now plaster or paint the fibrous web coated side of the tapes using standard commercial mortars or masonry dispersion paints.

Storage:

12 months from date of manufacture, in sealed original packaging and properly ventilated storage location, at temperatures of + 10 °C to + 25 °C.

Winflex® Optima es Vario is available in the following types:

Types:	
Mono	 <p style="text-align: center;">Winflex® Optima es Vario, Type Mono with full-surface self-adhesive coating and split foil cover for easy application</p>
Duo	 <p style="text-align: center;">Winflex® Optima es Vario, Type Duo with full-surface self-adhesive coating and split foil cover for easy application additionally with 20 mm wide self-adhesive layer for attachment to window frames</p>

Attention! Special notes:

To the best of our knowledge the above information is based on the state of the art but will not guarantee flawless processing of our products. The information is based on practical results of our tests but is not binding and constitutes no warranty of characteristics in terms of Federal Supreme Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information provided by our staff is recommendatory only, with no liability accepted.

Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further application or further processing.

Since our information is non-binding, we do not guarantee its correctness. For this reason, we accept no liability for possible improper processing based on information provided by our staff.

This Technical Data Sheet supersedes all previous versions and is valid only up to publication of a new version, i.e. up to 31.12.2023. Please request a new, updated version after 01.01.2024.

Dr. Hermann, Anwendungstechnik, Gingen / Fils