



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 interior / exterior have been tested by:



Winflex® Optima interior (red = vapour impermeable) and Winflex® Optima exterior (grey = vapour permeable) constitute a system of tapes to quickly and reliably seal abutment joints on windows and exterior doors in accordance with the recommendations of the RAL Quality Assurance Association installation guidelines for windows and doors and with DIN 4108-7. The combination of Winflex® Optima interior and Winflex® Optima exterior creates the proper ratio of $s_d > 10 / 1$ inside / outside as required by building physics, without allowing moisture to penetrate the joint from the outside.

Winflex® Optima interior and Winflex® Optima exterior have a special structure allowing stretch in the transverse direction for optimal absorption of structural movement. This directional flexibility guarantees durable sealing of abutment joints. The full-surface self-adhesive underside of the tape has a coating of BOSIG High Tack adhesive. This adhesive has extremely aggressive adhering properties. This allows application even at low temperatures. The split cover foil on this self-adhesive coating allows particularly simple and time-saving application.

Winflex® Optima interior and Winflex® Optima exterior may be plastered and painted over and are therefore very easy to install fully concealed.

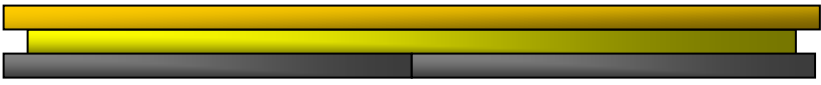
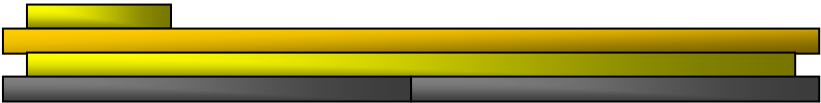
Winflex® Optima interior and Winflex® Optima exterior offer you the following benefits:

- structural movement is absorbed by lateral stretchability / flexibility
- many variants for any installation situation
- durable sealing ensured
- can be painted and/or plastered over
- no fluid adhesive systems to soil the window surfaces
- 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 underside with application-friendly split cover foil, coated with BOSIG High Tack adhesive
- perfect handling and optimal workability due to soft and pliable consistency and many types with and without self-adhesive strips, to match all structural conditions
- no additional adhesives required for application, rendering application particularly easy and time-saving
- especially suited for wooden frame construction

Technische Daten:

		Winflex® Optima interior	Winflex® Optima exterior	
Colour		red (vapour impermeable)	grey (vapour permeable)	
Base		high-grade Polymer foil, fibrous web coated on both sides		
Temperature resistance		- 40 °C to + 80 °C		
Application temperature		recommended + 5 °C to + 35 °C, possible from - 10°C		
Width		70, 100, 150 mm		
		other widths from 50 to 500 mm are available upon request		
Length of roll		40 m		
Max. tensile strength	lengthwise	> 450 N / 5 cm	> 380 N / 5 cm	DIN EN 12311 – 2
	across	> 85 N / 5 cm	> 70 N / 5 cm	
Stretchability at max. tensile strength	lengthwise	> 25 %	> 25 %	DIN EN 12311 – 2
	across	> 100 %	> 160 %	
Fire behaviour		Fire classification E, normally inflammable		DIN EN 1 501 – 1
Air tightness		airtight		DIN 4108 – 7
Water pressure resistance – tightness against driving rain		> 200 cm water column		DIN EN 20811
s _d -value		ca. 32 m	ca. 0,81 m	DIN EN ISO 12572
UV resistance (outdoor weathering)		no (interior application)	9 months max.	

Winflex® Optima interior and Winflex® Optima exterior are available in the following types:

Types:	
Mono	 <p>Winflex® Optima, Mono type, with full-surface self-adhesive coating and split cover foil for easy application</p>
Duo	 <p>Winflex® Optima, Duo type, with full-surface self-adhesive coating and split cover foil for easy application; additionally with 20 mm wide self-adhesive layer for attaching to window frames</p>

Processing notes:

The bonding surfaces must be smooth, dry, free of oil, grease and dust, and inherently stable and with load-bearing ability. To install Winflex® Optima, it is necessary to smooth finish the inside of the embrasure as per DIN 4108-7. It must be ensured, especially in low temperatures, that all bonding surfaces are free of any 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. Application at 0 to -10°C will reduce initial adhesion. Although application is possible at such temperatures, high final strength will need longer time of contact.

Winflex® Optima Duo:

Spool Winflex® Optima interior / exterior 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 latter to the back of the window frame using a pressure roller. Proceed in this way on all sides of the window frame to be sealed. The window frame can now be aligned and fastened. The cavity between window and wall may now be filled with the requisite volume of insulating material. Our **Combband 600** is suited for this purpose.

The split protective foil on the full-surface self-adhesive coating is peeled off as required and the tape carefully pressed onto the substrate. Ensure that the tapes overlap in the corners! Use a pressure roller to achieve optimal initial adhesion.

Winflex® Optima Mono:

The window element is aligned and fastened and the cavity between window and wall filled with a suitable quantity of insulating material. Our **Combband 600** is suited for this purpose. Winflex® Optima interior / exterior type Mono is spooled off the reel and cut to length with at least 5 cm to spare. The split protective foil on the full-surface self-adhesive layer is peeled off as required and the tape is carefully pressed onto the substrate and window frame.

Ensure that the tapes overlap in the corners! Use a pressure roller to achieve optimal initial adhesion.

The fibrous web coated side of the tapes can now be plastered over with commercial mortars or painted with emulsion paints!

Storage:

12 months from date of manufacture in sealed original container in a properly ventilated storage area at temperatures between +10°C and +25°C.

Attention! Important Note:

Above information are based on best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties 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 by our specialists are merely recommendations, for which no liability is 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.

Since our information are non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees.

This technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2024. Please request the latest version after Jan. 01, 2025.

Dr. Hermann, Anwendungstechnik / Application Technology, Gingen / Fils