Building Material Scout

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)

Certification:
The emission behaviour of Winflex® has been tested independently by the institute for analytic Aurachtal. Winflex® has been proved and tested to be very low-emission and particularly does not contain any halogenated flame retardant substances.

Winflex® interior / Winflex® exterior are tested by

MPA NRW. Materialprüfungsamt Nordrhein-Westfalen **geprüft** Nr.: 220006516-02

MPA NRW. Materialprüfungsamt Nordrhein-Westfalen **geprüft** Nr.: 220006520

MPA Dresden

Technical Information
Winflex® interior - Winflex® exterior

Winflex® interior (red = water-vapour-proof) and Winflex® exterior (grey = water vapour permeable) are a system of sealing tapes to seal connection joints on windows and outer doors quickly and safely, vapour proof on the inside and vapour permeable on the outside, according to ENEV, DIN 4108 – 7 as well as recommendations of the guidelines of the German RAL quality assurance association for windows and doors.
The combination of Winflex® interior and Winflex® exterior ensures a proper construction physical gradient of s_d value of > 10 / 1 interior / exterior, eliminating infiltration of moisture from the outside of the joint.
Due to their special construction, Winflex® interior and Winflex® exterior tapes are flexible in crosswise direction, which allows them to optimally absorb movements within the building. Due to this pointed flexibility, the permanent seal of window joints is ensured.
Winflex® interior and Winflex® exterior sealing tapes can be plastered over and painted, therefore they can be very easily covered completely. The connection with the window frame can be sealed permanently and reliably with the special self-adhesive strip while our white adhesive pastes Winflex® TFS or Winfix in a squeeze tube as well as a trip of butyl rubber adhesive on the tape can be used for a permanently seal to the wall or soffit. Also Winflex® TFS or Winfix can be used to properly even out any bumps.

Winflex® interior and Winflex® exterior sealing tapes offer the following advantages:

- due to their flexibility in crosswise direction they compensate for any building movements
- they therefore provide a permanent seal
- they can be plastered over and painted
- there are no dirty window surfaces due to liquid adhesive systems
- they contain no solvents, either on the adhesive strip on the seal nor in the Winflex® TFS or Winfix from the tubular bag
- they offer significant savings due to time advantages
- they are compatible with acrylic glass and polycarbonates
- they provide high adhesion of the sealing strip on all types of window frame

In addition to the combination of Winflex® interior / Winflex® exterior, the following material combinations can be used as inside / outside seals:

Inner seal		Outer seal
• Inside Alu • Inside Mono / Duo • **Winflex® interior** • Sealants such as SB-Acryl, SB-Superacryl / SB Sil-N	combined with	• **Winflex® exterior** • Outside Mono / Duo • compressed foam tape Combband

Possible combinations with Winflex® interior or Winflex® exterior for inner and outer seals depending on s_d value.

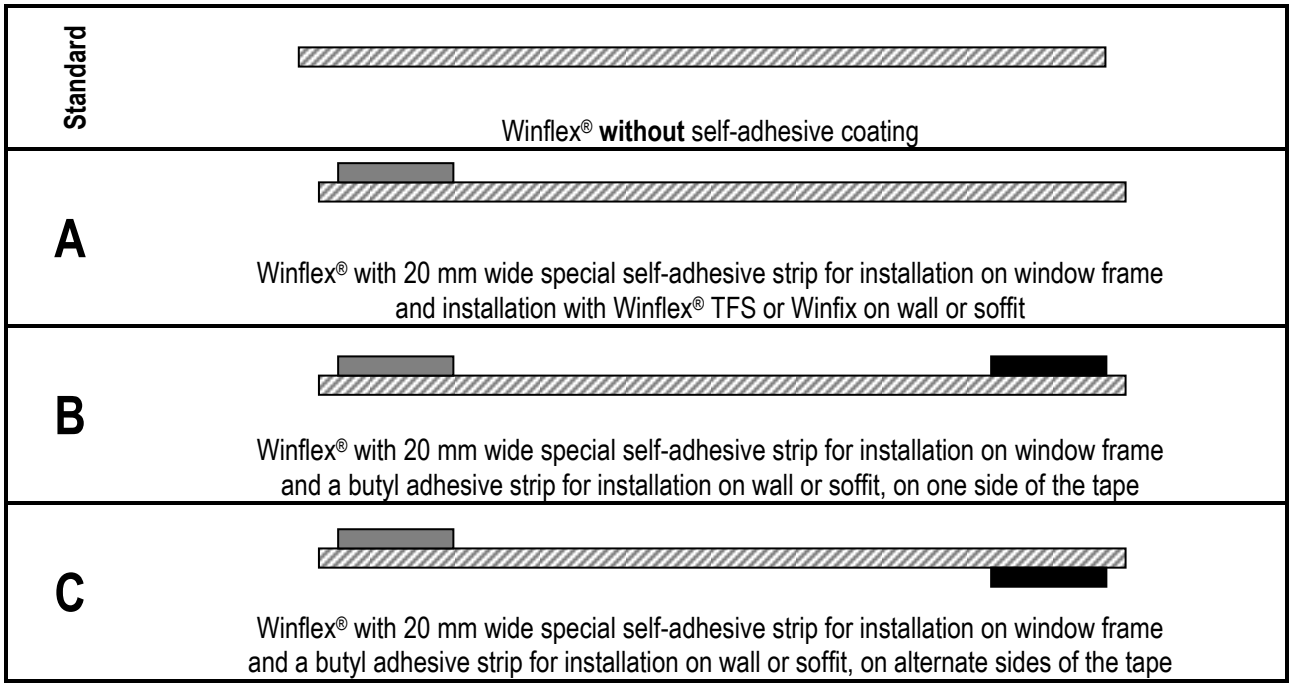
Technical Information
Winflex® interior - Winflex® exterior

Technical data:

		Winflex® interior	Winflex® exterior	
Colour		red (vapour-proof)	grey (vapour permeable)	
Basis		high quality polymer foil, non-woven material lining on both sides		
Temperature resistance		- 30 °C to + 80 °C		
Shelf life		a minimum of 12 months at + 10 °C to + 25 °C in original packaging		
Processing temperature		+ 5 °C to + 35 °C		
Width		available in widths from 50 mm to 500 mm		
Roll length		80 m for standard version 40 m for A version 20 m for B and C versions		
Max. tensile strength	linear	> 450 N / 5 cm	> 380 N / 5 cm	DIN EN 12 311 – 2
	lateral	> 85 N / 5 cm	> 70 N / 50 mm	
Elongation at max. tensile strength	linear	> 25 %	> 25 %	DIN EN 12 311 – 2
	lateral	> 100 %	> 160 %	
Fire behaviour		building material class B2 fire behaviour Class E		DIN 4102 – 1 DIN EN 13 501 – 1
Air tightness		airtight		DIN 4108 – 7
Driving rain proof			≥ 1050 Pa	based on DIN EN 1027
Water pressure proof		> 200 cm water column		DIN EN 20811
s_d value		approx. 55 m	approx. 0.1 m	DIN EN ISO 12 572
UV resistance (outdoor weathering)		no (interior application)	9 months max.	

Winflex® interior and Winflex® exterior are available in the following versions:

Versions:



When using versions with butyl rubber adhesive strip, an additional mechanical mount or additional adhesion with Winflex® TFS or Winfix is required for foil widths of more than 150 mm (facade area).

Processing notes:
The mounting surfaces must be clean and dry, free of oil, grease or dust and they must be stable. For porous and absorbent surfaces, we recommend a pre-treatment with our special **Multi Primer** when using Winflex® versions with butyl adhesive strips. Roll Winflex® interior and Winflex® exterior off the spool and cut about 10 cm longer than needed. Pull off the covering and press the mounting strip carefully on the window frame. Proceed the same way on all sides of the window to be sealed. Now align and attach the window element. Then fill the gap between the window and the wall with the correct amount of insulating material. Our pre-compressed PU foam tape **Combband** is especially suited for this purpose.
Now use Winflex® TFS or Winfix in the squeeze tube on the wall or soffit. Apply one or several thick beads, then smooth out with a spatula for a neat finish. After that, the Winflex® tapes are glued very carefully into this adhesive layer.
Or pull the protective foil from the butyl adhesive strip and carefully place the tape on the surface.
Make sure that the corners overlap! Use a pressure roller for optimum adhesion. For a clean plastering job, make sure that the complete area of the strip to be covered is properly adhered to the mounting surface. Make sure there are no gaps underneath the strips!
The tapes therefore can even be used on uneven surfaces.
The non-woven covered side of the strips can now be plastered over with commercially available mortar or painted with exterior paint!

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