

**Water-impermeable but diffusion-capable elastic sealing strip system for outdoor use  
(cold side of the building)**

**PROPERTIES**

- Diffusion-capable (value 3 m)
- Water-impermeable, resistant to driving rain and airtight
- UV-resistant and bitumen-compatible
- No need for additional mechanical fastening
- Equipped either on one (SK1) or both sides (SK2) with a self-adhesive strip
- Watertight, windtight
- Easy and economical application
- Flexible even at low temperatures
- EMI CODE EC 1 Plus certified
- Product and manufacturer's declarations available according to DGNB, LEED, baubook and bauXund

**POSSIBLE USES**

TEROSON FO 3 SK is a flexible sealing strip featuring optimum absorption of movement and tear resistance. The vapor-permeable sealing strip is well suited for pre-installation (e.g. on window frames) and can be easily and neatly molded to the surface and different profiles. When using TEROSON FO 3 SK1 or SK2 during the installation of curtain walls, the strips are immediately resistant to wind uplift after pressing them down to the surface.

TEROSON FO 3 SK is used on the cold side of the building for sealing connections and joints in window installation and facade construction. In order to prevent damage caused by condensation water, it has often been recommended that the building structure is equipped with appropriate vapor pressure equalization holes so that the condensed moisture can escape in the dry season.



**The vapor-permeable TEROSON FO 3 SK provides a better solution:**

The sealing strip seals against liquid water. At the same time, its high vapor diffusion permeability ensures that moisture entrapped during construction can escape. This helps avoid damage caused by condensation during the later use of the building.

Thanks to its low value of 3 m, TEROSON FO 3 SK is able to provide reliable sealing solutions, even under difficult structural conditions.

## SUBSTRATE PREPARATION

The substrate for the adhesive must be surface-dry, load-bearing, sound and free from dust, release agents, oil and grease. Deep hollows, e.g. rock pockets or shrinkholes in the concrete, must first be filled. The client should be informed about this requirement already at the tender stage. Damp substrates need to be primed with TEROSON PRIMER M+S or TEROSON PR PRIMER SPRAY M+S. All non-absorbent substrates like aluminum (also powder-coated, e.g. with polyester paints), copper or zinc as well as rigid PVC sections, must be dry. Mechanically remove any corrosion residues. Degrease surfaces with traces of grease or release agent. Remove any dust from sound, mineral substrates.

Before using the self-adhesive TEROSON FO 3 SK sealing strips or adhesive tape TEROSON RB CONTACT B, it is necessary to prime the substrate with TEROSON PR PRIMER M+S. However, when fixing TEROSON FO 3 SK on the building structure with the adhesive paste TEROSON AD KDS, no priming is required on sound substrates. On damp substrates and in case of doubt, use TEROSON PR PRIMER M+S or first carry out an adhesion test.

## APPLICATION

### Installation of self-adhesive TEROSON FO 3 SK1 and TEROSON FO 3 SK2

The self-adhesive sealing strips can easily be fixed on the window element and thus offer a lot of advantages compared to conventional bonding methods.

Simply peel the release paper off and firmly press the sealing strip down to the window frame. This is best done by means of a hard rubber roller. Due to its instant adhesion, the sealing strip cannot slip any more, thus allowing work to be continued speedily.

TEROSON FO 3 SK1 is fixed on the building structure with TEROSON AD KDS adhesive paste. For further application details refer to the section "Fixing with TEROSON AD KDS" in this Technical Data Sheet.

TEROSON FO 3 SK2 is used whenever the surface of the building structure is sufficiently even to ensure a water- and airtight seal. Overlapping areas, which must have a width of approx. 50 mm, can be fixed with either TEROSON CONTACT tape or TEROSON AD KDS paste. Since building substrates often tend to be very uneven, TEROSON AD KDS is the product of choice for fixing the strips on concrete or masonry.

## FIXING WITH TEROSON RB CONTACT B

The possibility of fixing TEROSON FO 3 SK with a special contact tape offers many advantages compared to other bonding methods, especially on windows or other building elements. TEROSON RB CONTACT B+F tapes are available in two different widths and thicknesses. They are used for fixing one side of the sealing strip on the window frame and the other side on the concrete. Simply apply the tape straight from the roll onto the frame or other parts of the window, press it down, peel off the release paper, align the sealing strip and firmly press it down once, ideally using a hard rubber roller. Thanks to instant adhesion, the sealing strip cannot slip any more, thus allowing the speedy continuation of work.

TEROSON RB CONTACT B, a thicker quality for levelling out uneven substrates, is fixed in the same manner on the building structure. As mentioned above, the substrate must be primed in the area to be sealed. After drying, apply the sealing strip TEROSON FO 3 SK and secure it in place with TEROSON RB CONTACT B. The tape can also be used on overlapping areas (minimum width 50 mm). As building substrates often tend to be very uneven, adhesive paste TEROSON AD KDS is most often the product of choice when fixing the sealing strip on concrete or masonry.

## FIXING WITH TEROSON AD KDS

Depending on the condition of the building structure, it may be better to fix TEROSON FO 3 SK sealing strips with TEROSON AD KDS paste on very rough building surfaces. Compared to the self-adhesive TEROSON FO 3 SK1 and SK2 resp. TEROSON RB CONTACT B, the paste offers a favorable levelling effect due to its pasty consistency. It ensures 100 % watertightness, e.g. in the lintel area, and is recommended when, due to structural conditions, it is not possible to mold the sealing strip closely to the surface.

For the above reasons and depending on site conditions, the preferred solution is the combined use of sealing strip and TEROSON AD KDS. The different bonding options ensure the economical and reliable use of TEROSON FO 3 sealing strips.

TEROSON AD KDS adhesive and sealant paste can be used down to air and substrate temperatures of -5 °C. At temperatures below +5 °C keep in mind that curing of the paste will be delayed. Apply strands of the paste either with a manual or compressed air gun (air pressure approx. 2 bars) to the substrate. Afterwards, press the sealing strip TEROSON FO 3 SK into the paste layer which must still be fresh and skin-free. Roll the strip over with a pressure roller.

Only apply as much TEROSON AD KDS paste as can be covered with sealing strip before start of skin formation. To ensure reliable adhesion of the strip, the adhesive-covered area must have a min. width of 30 mm and a thickness of  $\geq 1$  mm after pressing the strip home. If adhesive paste is squeezed out from under the strip edges, it should be smoothed over on horizontal surfaces above the window to provide additional sealing. Overlapping areas must have a width of approx. 50 mm and are fixed using the same technique.

Naturally, TEROSON FO 3 can also be fixed directly on the element with TEROSON AD KDS. For this application, however, we recommend the much more economical use of the self-adhesive sealing strips TEROSON FO 3 SK1 and SK2.

If it is necessary to additionally fix the sealing strips in some places, e.g. on wedges of insulation material, we recommend the use of TEROSON AD KDS. This adhesive paste can also be used for bonding the thermal insulation material. In the case of polystyrene, it is also possible to use TEROSON RB CONTACT B.

## PLEASE NOTE

Make sure to apply the sealing strip loosely and without tension. When applying the sealing strip overhead, no mechanical fastening is normally required. All data given was obtained under standard climatic conditions. Under other climatic conditions, the technical properties may change.

## SUSTAINABLE BUILDING

On request, product and manufacturer's declarations for sustainable building can be issued for this product. The documents meet the requirements of DGNB, LEED baubook and BauXund. The data sheets can be made available to the auditor to provide the necessary documentation for a sustainable building.

## CONSUMPTION

### TEROSON AD KDS

For one-sided application on the building structure, one tubular bag (570 ml) is sufficient to cover 10 to 15 m, depending on the roughness of the concrete. If TEROSON FO 3 SK is also fixed on the building element with TEROSON AD KDS, one bag of 570 ml is required to cover approx. 8 to 12 m.

### TEROSON PR PRIMER M+S, TEROSON AD ADHESIVE SPRAY

Consumption approx. 80 to 120 g/m<sup>2</sup>, depending on the substrate absorbency

### TEROSON RB CONTACT B+F

Use TEROSON RB CONTACT F tape (thickness 1 mm) for fixing the sealing strip on the frame and other window components. Use TEROSON RB CONTACT B (thickness 2 mm) for fixing the strip on the building envelope.

## TECHNICAL DATA

### TEROSON FO 3 SK1 / TEROSON FO 3 SK2

Thickness:	0.4 mm
Color:	anthracite grey
Area weight:	approx. 520 g/m <sup>2</sup>
Shrinkage:	1.3 %
Application temperature (substrate / air):	-5 °C to +40 °C
Temperature resistance:	-40 °C to +90 °C
Available widths:	150, 200, 250, 300, 350, 400, 500, 600 mm
Flexibility at $\pm 0$ °C:	no breakage, no cracks
value ( $\mu \cdot s$ ) acc. to DIN EN ISO 12572	3.7 m
Heat resistance at +90 °C:	no visible changes
Cold crack temperature (-30 °C):	no cracks
UV resistance:	yes, complies with DIN EN ISO 4592
Tensile strength at break l/q N/5 cm:	215/215
Elongation at break l/q %:	220/260
Fire behavior acc. to DIN 13501-1:	C-s2, d2

### TEROSON AD KDS adhesive and sealant paste

Material base:	MS polymer®
Consistency:	stiff, non-slump
Curing:	by atmospheric moisture
Density (at +20 °C):	approx. 1.5 g/cm <sup>3</sup>
Shore A hardness:	approx. 24
Permissible total deformation:	approx. 25 %
Application temperature (substrate / air):	-5 °C to +40 °C
Rainproof:	immediately
Skin formation (at +20 °C/ 60 % rel. humidity):	approx. 15-20 minutes, a thin skin can be opened up when applying and rolling over the sealing strip
Temperature resistance:	-40 °C to +90 °C

Curing rate (at +20 °C / 60 % rel. humidity):	approx. 2 mm from the edge / 24 hrs
Tensile strength acc. to DIN 53504:	approx. 0.9 mPas
Adhesive layer thickness:	≥ 1 mm to 20 mm
Weather- and UV-resistant:	yes
Color:	black

## TEROSON RB CONTACT B + F

Material base:	butyl-rubber
Thickness:	contact tape F 1 mm, contact tape B 2 mm
Color:	black
Consistency:	plasto-elastic
Wind- and weather-resistant:	immediately
Temperature resistance:	-35 °C to +90 °C

## STORAGE / SHELF LIFE

TEROSON FO 3 SK can be stored for 24 months in a cool and dry place.

TEROSON RB CONTACT B+F can be stored for 24 months in a cool and dry place.

TEROSON AD KDS can be stored for 9 months in a cool and dry place. Use up opened bags as soon as possible.

## CLEANING

We recommend cleaning the surface with a damp cloth.

## PACKAGING

### TEROSON FO 3 SK1, TEROSON FO 3 SK2

Roll length:	25 m
Roll widths:	150, 200, 250, 300, 350, 400, 500 mm

Extra-wide strips, e.g. used for suspended application on the window sill, are available on request.

### TEROSON RB CONTACT F

Roll:	5 rolls of 30 m/carton, 25 mm wide, 1 mm thick
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### TEROSON RB CONTACT B

Roll:	4 rolls of 30 m/carton, 30 mm wide, 2 mm thick
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TEROSON AD KDS	16 tubular bags of 570 ml per carton
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## DISPOSAL

The outer cartons of TEROSON FO 3 SK are disposed at a collection point for wastepaper or at a municipal waste collection point for recycling. Residues of the sealing strips must be disposed of as industrial waste / construction site waste.

European Waste Code (EWC): 080410

## CERTIFICATES



Fire behavior according to DIN EN 13501-1

Test institute:	Hoch
Classification:	C-s2,d2

Determination of the watertightness

Test institute:	MPA Braunschweig
Certificate no.:	5244/579/13-1
Tightness:	4 bars / 72 hrs

Component testing

Test institute:	ift (Institut für Fenstertechnik) Rosenheim
Test report no.:	105 30839 R2

Apart from the information given in this Technical Data Sheet it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the applicable national standards. All data given were obtained at an ambient and material temperature of +23°C and 50% relative humidity unless specified otherwise. Please note that in other climatic conditions hardening may be accelerated or delayed and take the resulting consequences into account.

The above information, in particular proposals for the handling, application and use of our products, is based on our knowledge and experience. As materials and conditions may vary with each intended application and thus are beyond our influence, we strongly recommend that in each case the user conducts sufficient tests to ensure our products are suitable for the intended application method and use. Legal liability cannot be accepted, either based on the content of this data sheet or any verbal advice given, unless there is evidence of carelessness or gross negligence on the manufacturer's part. This Technical Data Sheet supersedes all previous issues. Please refer to our Safety Data Sheet for hazard warnings, safety advice and information on transport labelling.

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