

Diffusion-capable and plasterable sealing strip system for the air- and windtight sealing of connections on windows and house doors from the outside

PROPERTIES

- Vapor-permeable and extremely tearproof fleece strip (value approx. 1 m)
- Can be plastered or painted over on both sides
- Self-adhesive on one side for rapid pre-fitting on windows
- Impervious to driving rain
- Recommended by leading ETICS manufacturers like Brillux, Caparol, ispo, Keimfarben etc.
- Adhesion even on wet window frames
- Bitumen-compatible
- Practical fingerlift: easy removal of the release paper even with work gloves
- Product and manufacturer's declarations available according to DGNB, LEED, BREAM



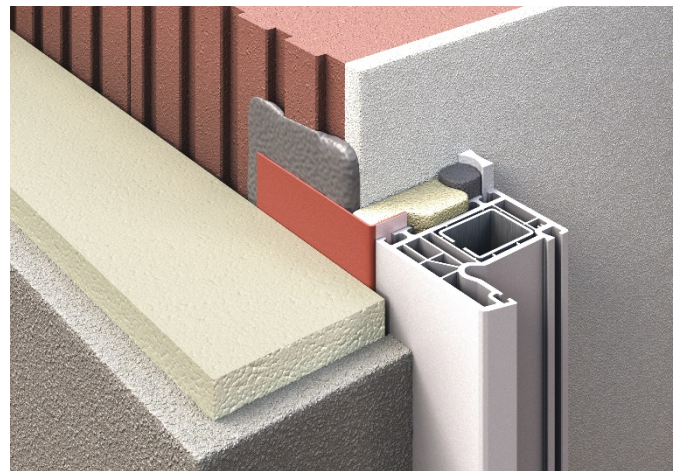
POSSIBLE USES

TEROSON FO 1 SK is a special sealing strip which, due to its low intrinsic stiffness, can be neatly molded to the surface, even with multi-angled structures. It thus offers easy and efficient application and meets the requirements of air- and windtightness as well as vapor diffusion permeability.

Structurally, it is necessary to ensure not only the wind- but also airtight sealing of all connections and joints (in compliance e.g. with DIN 4108 and the German Energy Saving Ordinance EnEV of 01.01.2016).

TEROSON FO 1 SK is the ideal sealing strip for sealing windows, window elements and house doors from outside wherever vapor diffusion permeability is required to ensure that moisture entrapped during construction can escape. This helps avoid possible damage caused by condensation during the later use of the building.

On one side, Teroson FO 1 SK is equipped with a 20 mm wide self-adhesive strip. It can therefore easily be pre-fixed on window frames when producing the connection seals on the "cold side" of the building.



This sealing strip for producing connection seals on windows is especially well suited as a substrate for external thermal insulation systems (ETICS). It has been tested and approved for use with ETIC systems and is recommended by market leaders such as CAPAROL, ispo, Brillux and quick-mix. All adhesives commonly used for fixing thermal insulating boards adhere to the vapor-permeable Teroson FO 1 SK. By fixing the strips with Teroson AD SP or in damp weather with Teroson AD SP PLUS, reliable adhesion and absolute tightness can be ensured even on uneven substrates.

SUBSTRATE PREPARATION

The substrate for the adhesive must be load-bearing, sound and free from dust, release agents, oil and grease. When applying TEROSON AD SP adhesive paste on dry, absorbent substrates, these should first be freed from dust and then slightly pre-wetted to ensure better adhesion. Deep hollows, e.g. rock pockets or shrinkholes in the concrete, must first be filled. The client's attention should be drawn to this requirement already at the tender stage. Normal unevenness, as is frequently found when renovating old buildings or unevenness due to the stone surface, even uneven areas typical of exposed aggregate concrete (should not be too coarse) can be levelled without problems with the help of adhesive pastes TEROSON AD SP or TEROSON AD SP PLUS. Element surfaces with traces of grease or release agent must be cleaned and degreased.

If the substrate is only lightly bound but stable, use TEROSON PR PRIMER M+S before applying the adhesive paste TEROSON AD SP.

APPLICATION

TEROSON FO 1 SK sealing strips are used for the outer sealing of windows and house doors. Thanks to the new fingerlift, the overlapping release paper can easily be peeled off the hotmelt adhesive – even when wearing gloves. The adhesive strip also features excellent adhesion on wet window frames. Position the sealing strip on the window and then firmly press it down with a hard rubber roller. TEROSON FO 1 SK can already be pre-installed in the workshop. Thanks to its low intrinsic stiffness, it can be neatly adjusted to corners. If required, TEROSON FO 1 SK can also be applied to the visible side of the window frame (after installing the window and filling the interspace).

When fixing the sealing strip to walls, it is necessary to use adhesive paste TEROSON AD SP, TEROSON AD SP PLUS or TEROSON AD SPS. When bonding the strip to the building envelope, the surface must be free of standing water. Slightly damp substrates do not cause a problem for TEROSON AD SP PLUS and TEROSON AD SPS as long as they are load-bearing.

It is recommendable to apply as much adhesive paste (special polymer) as is necessary to produce a layer of at least 30 mm width and at least 1 mm thickness after pressing down the sealing strip. Wall areas later covered with plaster require full-surface bonding of the strip.

Adhesive paste TEROSON AD SP can be applied down to ambient and substrate temperatures of +5 °C. Apply the paste in strands to the building structure using either a hand or compressed air gun (pressure 2-5 bars). Afterwards, press the TEROSON FO 1 SK sealing strip into the still fresh, skin-free adhesive paste and roll down with a pressure roller or other suitable tool. Only apply as much paste as to ensure sufficient adhesion after rolling.

TEROSON FO 1 SK overlaps must have a width of 50 mm and are fixed using the same technique.

TEROSON AD SPS is a 1-component foam adhesive that rapidly cures on contact with atmospheric moisture. It is based on polyurethane and applied with the help of a foam gun.

TEROSON AD SPS foam adhesive is applied in strands of approx. 3-4 cm diameter to the substrate or the window sealing strip. To ensure optimum adhesion, the plasterable sealing strip is pressed into the adhesive bed approx. 3-5 minutes after application of the adhesive. The sealing strip to be fixed, e.g. TEROSON FO 1 SK, is pressed with a PE or wooden spatula firmly into the pre-cured adhesive foam. The strip must be fixed to the masonry over nearly its entire surface (at least by 75 %).

After pressing the strip down, the adhesive layer must have a width of at least 30 mm and a thickness of 1 mm. In the case of uneven areas, apply more adhesive paste until the necessary bonding area is produced.

TEROSON FO 1 SK is not suitable for sealing expansion joints!

PLEASE NOTE

Make sure that the sealing strip is applied without tension in the joint area. If fixed with TEROSON AD SP, the strip can be applied on both dry and slightly damp substrates within a temperature range of +5 °C to +40 °C.

TEROSON AD SP is an environmentally compatible, water-based special polymer. Dry weather is therefore essential during its application and several hours after to ensure that part of the water can escape and a film can form on the surface.

If during renovation work it is necessary to seal very uneven surfaces, e.g. masonry, old washed concrete facades, the dry period after completion of the work must be sufficiently long to ensure that the layer of higher thickness can thoroughly dry. If this cannot be ensured or if, due to deadlines, work must be continued despite more or less unstable weather conditions, use TEROSON AD SP PLUS instead of TEROSON AD SP.

As TEROSON AD SP PLUS reacts by the absorption of air humidity, it is more or less independent of weather

conditions and can even be used in rain. Please note that curing is delayed at temperatures from -5 °C to +5 °C.

TEROSON FO 1 SK is not suitable for sealing structures in direct contact with the ground. The strips can be painted and taped over, but most important also plastered over. They are ready for plastering as soon as the adhesive paste has hardened to such a degree that it can bear the plaster weight. On dry substrates of normal absorbency and in normal climatic conditions, the strips are ready for plastering after 36 to 48 hours. If in doubt, carry out adhesive tests prior to plastering, especially in unfavorable weather conditions or if, due to the structure's unevenness, thicker adhesive layers are required.

SUSTAINABLE BUILDING

Product declarations and manufacturer's declarations can be issued upon request for this product.

These correspond to the requirements of common certification and rating systems, such as e.g. DGNB, LEED, BREAM... and are used in the evaluation of sustainable buildings.

CONSUMPTION

TEROSON AD SP and TEROSON AD SP PLUS

When fixing TEROSON FO 1 SK with adhesive paste to the building shell (one-sided bonding), one tubular bag (600 ml) is sufficient to cover approx. 15 m – depending on the surface roughness.

TECHNICAL DATA

TEROSON FO 1 SK

Material base:	polyester fleece
Thickness:	approx. 0.4-0.5 mm*
Color:	light grey
Area weight:	approx. 190 g/m²
Watertight:	yes
Temperature resistance:	-40 °C to +100 °C
Flexibility at -23 °C:	no breakage, no cracks
value (µ*s) m acc. to DIN EN ISO 12572:	approx. 1m
UV resistance:	12 months

* Varies due to the production process, therefore only approximate values can be given.

Equipped on one side with a 20 mm wide self-adhesive strip for easy and efficient application.

TEROSON AD SP (former Terotech SP)

Material base:	special polymer
Consistency:	non-sag
Curing:	by physical drying
Application temperature:	air/substrate +5 °C to +40 °C
Skin formation time at +23 °C:	approx. 15 minutes
Curing rate:	depends on temperature and air humidity as well as substrate absorbency
Color:	white
Adhesive bed thickness:	>1 mm to 10 mm
value of the 30 mm wide adhesive layer:	> 100 m

TEROSON AD SP PLUS (former Terotech SP plus)

Material base:	modified special polymer
Consistency:	non-sag
Curing:	by absorption of air humidity
Application temperature:	air/substrate -5 °C to +40 °C
Curing rate:	approx. 2 mm/24 hrs (at +23 °C)
Color:	grey
Adhesive bed thickness:	1 mm to 20 mm

TEROSON AD SPS

Material base:	1-component polyurethane
Curing:	by chemical reaction with moisture
Application temperature:	air/substrate -5 °C to +35 °C
Can temperature:	0 °C to 35 °C
Skin formation time at +23 °C:	approx. 10-20 minutes
Curing rate:	depends on temperature and air humidity as well as substrate absorbency
Color:	green
Adhesive bed thickness:	>1 mm to 2 mm

STORAGE / SHELF LIFE

TEROSON FO 1 SK can be stored for 24 months in a cool and dry place.

TEROSON AD SP can be stored for 18 months in the original packaging in a cool but frost-free place.

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

TEROSON AD SPS can be stored for approx. 18 months in a cool and dry place.

PACKAGING

TEROSON FO 1 SK

Roll length: 30 m
Roll widths: 75, 100, 150, 200, 250, 300, 400, 500 mm

Roll length: 60 m
Roll widths: 75, 100, 150 mm

TEROSON AD SP, 600 ml tubular bag, 12 bags/carton

TEROSON AD SP PLUS, 600 ml tubular bag, 20 bags/carton

TEROSON AD SPS, 750 ml cartridge, 12 cartridges/carton

DISPOSAL

The outer cartons of TEROSON FO 1 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

After curing, TEROSON AD SPS adhesive is no longer a hazardous substance and can be disposed of as household waste. Single cartridges can be taken for recycling to a municipal waste collection point. Cartons can be collected by the free PDR service (German recycling service).

European Waste Code (EWC): 160504

TEROSON AD SP and TEROSON AD SP PLUS

Only return the completely emptied containers to a waste recycling center. Dispose of hardened product residues as household-type industrial waste or construction site waste. Non-hardened product residues must be taken to a collection point for hazardous waste.

European Waste Codes (EWC):

TEROSON AD SP: 080409

TEROSON AD SP PLUS: 080409

CERTIFICATES



Fire behavior according to DIN EN 13501-1

Test institute: MPA Braunschweig

Classification: Class E

Certificate no.: K-3462/215/09-MPA BS

Airtightness and impermeability to driving rain

Test institute: ift (Institut für Fenstertechnik)

Test report no.: 105 30838/1 R1

Airtightness and impermeability to driving rain

Test institute: ift (Institut für Fenstertechnik)

Test report no.: 14-002174-PR02
(PB2-E03-020310-de-01)

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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