

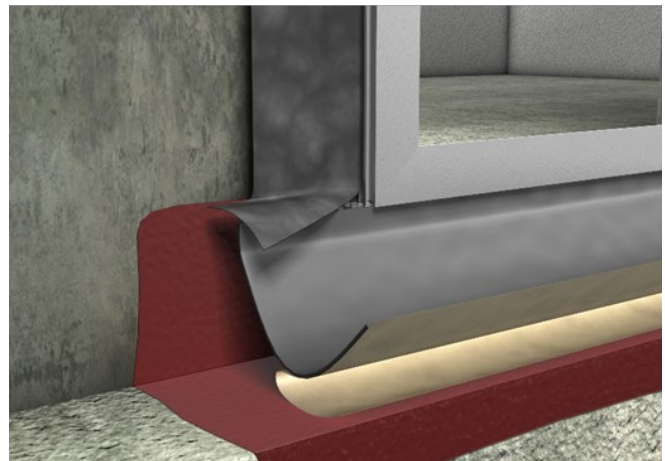
TEROSON FO KSK M+S

12.17.2018

Full-surface, self-adhesive sealing strip system for waterproofing building components in contact with soil according to DIN 18533 1/2 and for waterproofing balconies, loggias and walkways according to DIN 18531-5

PROPERTIES

- Self-adhesive over its entire surface, instantly watertight
- Complies with DIN 18533-1 (classes: W1.1-E, W1.2-E, W4-E) and DIN 18533-2:2017-07, table 9
- Material thickness 1.5 mm according to DIN SPEC 20000-202:2016-03, table 18
- Bitumen-resistant and radon-tight
- Can be applied down to -10 °C
- Asymmetrically divided release paper
- No need for additional mechanical fastening
- Tearproof, high-grade, cross-laminated special sealing strip coated with a moldable synthetic rubber-adhesive compound
- Highly moldable, therefore easily adaptable to the surface
- EMICODE EC 1 Plus certified
- Product and manufacturer's declarations according to DGNB, LEED, BREAM... are available.

**POSSIBLE USES**

- For waterproofing vertical and horizontal surfaces on the outside or inside of the positive (i.e. water-exposed) side of the building
- For waterproofing floor slabs and earth-contacting walls against ground moisture and non-pressing water (class W1.1-E)
- For waterproofing floor slabs and earth-contacting walls with drainage against ground moisture and non-pressing water (class W1.2-E)
- For waterproofing against capillary rise of moisture and for use as a water vapor barrier in the floor area under screeds (class W4-E)
- For waterproofing balconies, loggias and walkways according to DIN 18531-5:2017-07

SUBSTRATE PREPARATION

Clean the substrate before applying the sealing strip. The substrate must be load-bearing, sound and free of dust, release agents, oil, grease and other substances likely to impair adhesion. Deep cavities, e.g. rock pockets or shrink-holes in the concrete, must be filled and smoothed with levelling compound. All element surfaces made of metal (e.g. aluminum, copper, zinc) must be free of oxide layers and release agents. At low temperatures make sure that the

surfaces are free of ice crystals. Horizontal surfaces can be damp, but must be free of standing water or surface water. Mechanically remove sharp or pointed irregularities from the surface. In the case of structurally permeable substrates, e.g. coarse-pored exterior walls, it is necessary to apply a DIN-compliant first rendering or scratch coat.

For mineral substrates we recommend applying a Teroson priming coat. Weakly bound but load-bearing substrates should be primed with Teroson PR Primer ECO or PR Primer M+S. At low temperatures in the cold season or on bituminous substrates, use Teroson PR Primer M+S.

TEROSON PR PRIMER ECO is a special adhesion promoter that forms a durable bond with the substrate and produces a load-bearing surface for the reliable application of Teroson sealing strips. Sealing strips plus primer constitute a perfectly matched system. Teroson PR PRIMER ECO meets the requirements of DGNB, LEED and BauXund.

TEROSON PR Primer M+S is a solvent-containing, ready-for-use, rubber-based primer. It is applied by paint brush, paste brush or spray can. Allow the priming coat to flash off until it is dry but still tacky. Flash-off time depends on ambient temperature and relative humidity, but must be at least one hour. Only prime as much area as can be covered with the sealing strip on the same day.

APPLICATION

CONNECTION SEALS WINDOW/FACADE

TEROSON FO KSK M+S is available in widths of 200 + 300 mm and comes with an asymmetrically divided release paper. After peeling off the 30 mm wide release paper, this part of the sealing strip can be cleanly and efficiently bonded to the window element. Two options: The sealing strip can either be pre-installed on the window element in the workshop or directly on site.

In the 2nd step, pull the release paper off the self-adhesive coating at a slight angle, starting on the outside and moving in the direction of the release paper perforation. At the same time, press the sealing strip firmly down to the surface. We recommend fixing the strip over a width of 10 cm on the building component, depending on the load-bearing strength and condition of the substrate. On smooth, clean and load-bearing substrates, the bonding width can be reduced after prior consultation with TEROSON's Technical Service Department. Make sure to fix the strips in such a way as to prevent the capillary rise of moisture and large air inclusions. Press them firmly down, especially in overlapping and edge areas, with the help of a suitable pressure roller. Overlapping strips should be bonded on top of each other over a width of approx. 80 mm.

When using TEROSON sealing strips for producing connection seals, it is not necessary to use additional mechanical fasteners. This distinguishes TEROSON from other sealing strips. After fixing, protect the sealing strips against direct solar radiation and high temperatures.

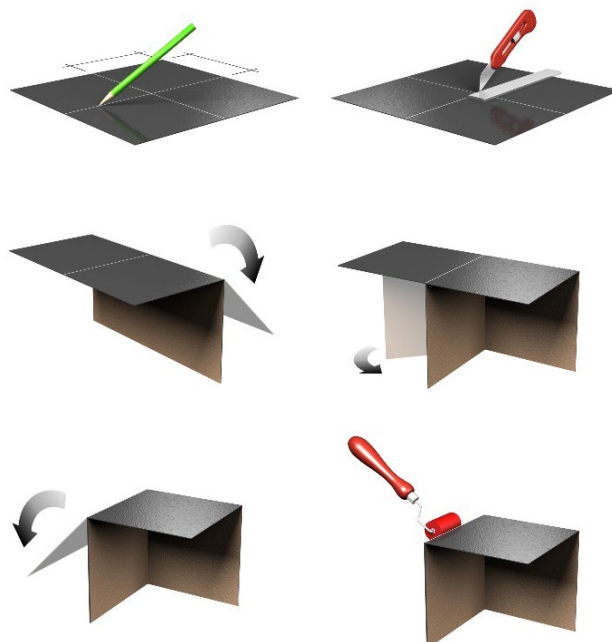
FULL-SURFACE WATERPROOFING

To protect cellars, facades, wet rooms, balconies and terraces against moisture, TEROSON FO KSK M+S strips are applied on the outside or inside of the positive side of the building (i.e. water-exposed side). The strips are used for the horizontal and vertical surface sealing of buildings and building components to protect them against ground moisture and non-pressing water.

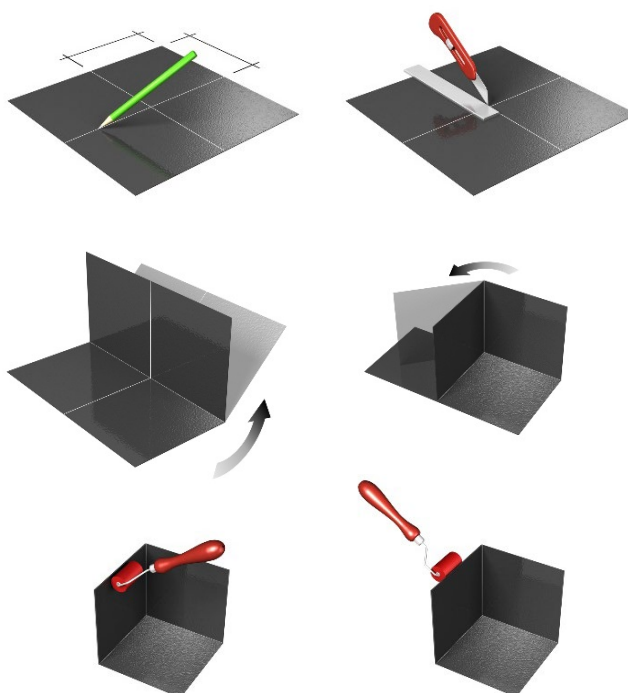
TEROSON FO KSK M+S strips can be easily cut to size using a sharp knife with a straight blade. Cut the strip on a cutting board, with the release paper facing down. Before installing

the sealing strip proper, apply reinforcing strips of approx. 30 cm width to all corners, edges and grooves. Cut them to size from TEROSON FO KSK M+S cuttings. Also inner and outer corners need to be sealed separately before installing the TEROSON FO KSK M+S sealing strip.

How to produce outer corners



How to produce inner corners



On vertical surfaces, roll out TEROSON FO KSK M+S sealing strip, align it and fix it in position using strip cuttings or adhesive tape. In the next step, pull off the release paper while at the same time pressing the strip down over the full surface, proceeding from the middle to the outer edges, in order to prevent creases and air bubbles between substrate and strip and ensure good instant adhesion. Afterwards, roll the entire strip firmly down again with a pressure roller. Make sure that the single strips overlap by at least 80 mm.

On horizontal surfaces, first align the strip on the surface. Then roll the strip up again and start removing the release paper. At the beginning of the roll, slowly and evenly peel off approx. 1 m of the paper, roll it up and place the strip, adhesive side down, on the surface. Continue to unroll the strip while at the same time removing and rolling up the release paper. As described above for vertical surfaces, finally press the entire strip firmly down with a pressure roller. Make sure to observe a minimum overlap width of 80 mm between the single strips.

If, for structural reasons, it is necessary to fasten the edges of the KSK strips, plaster rails or capping strips can be used for this purpose. The strip edges can additionally be sealed with TEROSON RB 4006 or TEROSON AD KDS.

When planning to combine TEROSON FO KSK M+S with other sealing strips or membranes, please contact us to request advice. PVC membranes (e.g. by WOLFIN) that have been plasticized with the help of polymers can be covered directly with TEROSON FO KSK M+S strips. PVC membranes that contain monomeric plasticizers must first be covered with a barrier layer against the plasticizer. EPDM membranes always need to be primed with TEROSON PR Primer M+S.

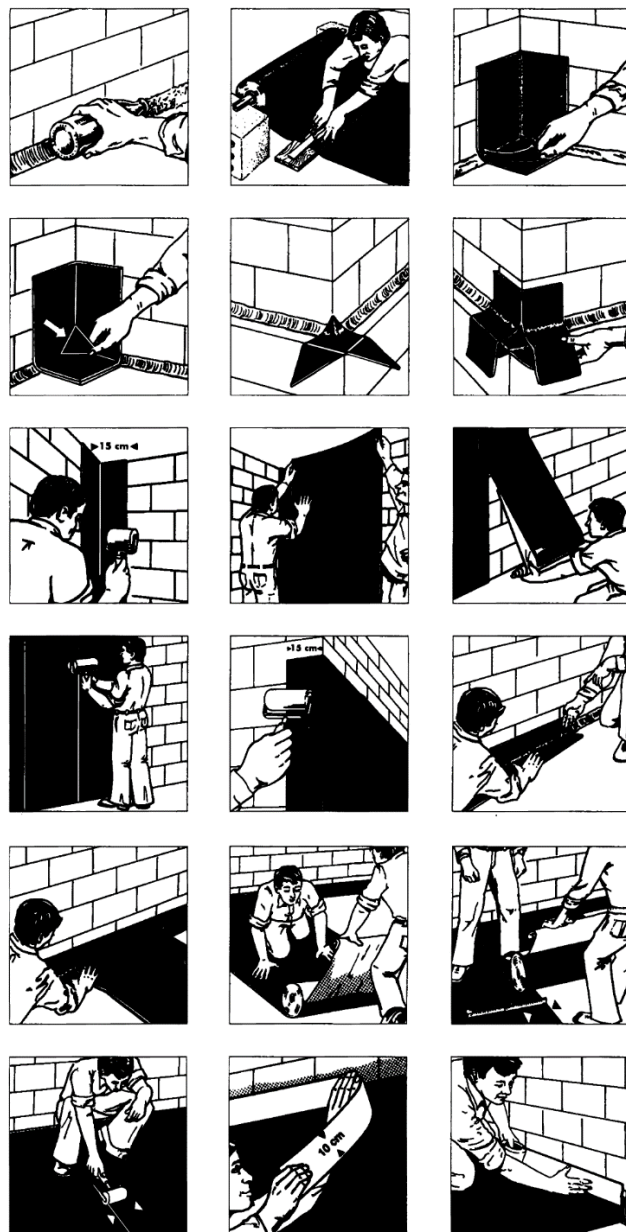
Protect the finished waterproofing layer from damage, e.g. by using polystyrene drainage boards to protect exterior cellar walls.

CONSTRUCTION JOINTS AND BUTT JOINTS

When waterproofing the movement and butt joints of structural components made of waterproof concrete, it is mandatory to follow the "WU-Richtlinie" (Code of Practice for concrete structures impermeable to water). For this purpose, apply TEROSON FO KSK M+S on the earth-contacting side of the water-impermeable structure, on both sides of the joint to be sealed, over a minimum width of 30 cm (15 cm on each side of the joint).

Working overhead up to widths of 100 mm requires very careful priming beforehand. If wider strips need to be fixed overhead, they must also be mechanically secured. Very uneven surfaces require additional sealing with TEROSON AD KDS.

Before connecting TEROSON FO KSK M+S to other sealing membranes or strips, please contact the Technical Service Department to request advice.



PLEASE NOTE

Damaged areas of the sealing strip can be easily repaired by cutting a patch of TEROSON FO KSK M+S to the desired size. Make sure to allow sufficient overlap on all sides. Fix the patch over the clean and dry damaged area and roll it down.

CLEANING

Residues of the bitumen/synthetic rubber compound can be easily removed with cleaning solvent.

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.

TECHNICAL DATA**TEROSON FO KSK M+S**

Material base:	HDPE sheeting equipped with a bitumen/rubber adhesive compound
Color:	anthracite
Standard thickness/width:	1.5 mm x 200 / 300mm Special width = 1000mm
Weight:	approx. 1.7 kg / m ²
Application temperature:	-10 °C to + 30 °C
Crack-bridging ability: (E DIN 28052-6)	> 5 mm with 2 mm crack offset
Cold flexibility:	-30 °C
Tensile strength:	longitudinal/transverse: > 200 N/50 mm, max. tensile force > 150 % extension
Tear resistance:	> 100 N (longitudinal/ transverse)
Resistance to static load:	Test method B = 5 kg
Resistance to impact:	Test method A = 500 mm
Shear resistance of the seams:	> 200 N/50 mm
Heat resistance: (DIN 52123)	> 60 °C
Water vapor permeability: (DIN EN 1931)	approx. 0.11 g/m ² d
Water vapor diffusion resistance μ : (DIN EN 1931)	approx. 240 000
Diffusion-equivalent air layer thickness: (sd-value) (DIN EN 1931):	approx. 360 m
Water tightness:	4 bars/24 hrs (tight)
Fire behavior: (DIN EN 13501-1)	Euro class E

TEROSON PR Primer ECO

Material base:	Water-based
Subject to labeling:	No
Density:	0.96 kg/l
Application temperature:	$\geq 1\text{ °C}$ to $\leq +35\text{ °C}$
Flash-off time:	20 - 50 minutes at 23°C, at low temperatures much longer

TEROSON PR Primer M+S // Primer Spray M+S

Material base:	Rubber dissolved in solvents
Subject to labeling:	No
Density:	0.96 kg/l // 0.8 kg/l
Application temperature:	-10 °C to +35 °C
Temperature resistance:	-25 °C to +90 °C
Flash-off time:	Allow the primer to flash off until it is dry but still sticky.
Flash point:	24 °C
Subject to labeling:	Yes, see Safety Data Sheet
Consumption:	90 - 120 g/m ² // 80 g/m ² depending on the absorbency
Shelf life:	12 months in a cool and dry place

STORAGE

Rolls of TEROSON FO KSK M+S must be transported and stored in an upright position. Before use, the rolls must be protected against pressure, heat and moisture. Shelf life: 36 months.

At summer temperatures, store TEROSON FO KSK M+S rolls in a cool room. At low temperatures, store the rolls at a minimum temperature of +10 °C before use. Remove the protective carton only at the place of use.

Self-adhesive sealing strips/membranes like TEROSON FO KSK M+S must always be stored in a cool place, because the plastic adhesive layer warms up when exposed to heat (e.g. direct solar radiation). This will make the application more difficult than necessary. When observing the instructions for proper storage and preparation, TEROSON FO KSK M+S sealing strips can be used all year round.

PACKAGING

Available roll widths of TEROSON FO KSK M+S sealing strips:

20 m x 200 mm
20 m x 300 mm
15 m x 1000 mm

DISPOSAL

The outer cartons of TEROSON FO KSK M+S are disposed of at a collection point for wastepaper or at a municipal waste collection point for recycling. Residues of the strips must be disposed of as industrial waste/construction site waste. European Waste Code (EWC): 080410

Only return the completely emptied containers of TEROSON PR Primer M+S, free of solvent vapors, to a waste recycling center. European Waste Code (EWC): 080409

CERTIFICATES



Fire behavior according to DIN EN 13501-1:

Test institute: MPA Braunschweig
Classification: Euro class E
Certificate no.: K-3661/484/09-MPA BS

Determination of watertightness:

Test institute: MPA Braunschweig
Certificate no.: 5244/579/13-3

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 labeling.

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