

Product Description

LUX ELEMENTS®-ELEMENT-VK is both a slab-shaped sealing system as well as a construction panel with design and vapour barrier characteristics.

System components

- **LUX ELEMENTS®-DRY-DBV** is a sealing tape fleece backed on both sides, which is ideally suited for wall/floor connections and for the formation of wall corners.
 – width: 120 mm
 – thickness: approx. 0,5 mm
- **LUX ELEMENTS®-DRY-DBVIE/AE** are deep drawn interior or exterior corners fleece backed on both sides, which are ideally suited for fast and secure formation of corner seals (suitable for LUX ELEMENTS®-DRY-DBV).
- **LUX ELEMENTS®-DRY-DBDZM** is a PVC expansion zone sleeve fleece backed on both sides for the fast and secure sealing of pipe ducts.
 – dimensions: 120 mm x 120 mm and 150 x 150 mm
- **LUX ELEMENTS®-DRY-ASK** is a single-component, water-impermeable, crack-bridging and flexible sealing compound.

Technical data

Core material:	EPS (colour blue)
Thermal resistance:	-5 °C to +70 °C
Tensile strength (vertical to panel level):	> 300 kPa [DIN EN 1607]
Fire resistance:	Class E [DIN EN 13501-1, see classification report KB-Hoch-200914]
Water vapour permeability sd:	approx. 85 m
Dimensional tolerances:	Length and width: ± 2 mm Thickness: ± 10 % Squareness: ± 2 mm/1000 mm

Front

Colour:	grey
Material sealing layer:	Polyethylene (PE)
Material surface:	Polypropylene (PP) tissue

Back

Material surface:	cemented coating with embedded glass-fibre fabric
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Applications

LUX ELEMENTS®-ELEMENT-VK is suitable for use in moist areas as a panel-type sealing and carrier element for tiles, mosaics and plaster, both on walls and floors.

LUX ELEMENTS®-ELEMENT-VK is used on solid walls, for cladding stud frames and installation walls, and as a free-standing partitioning wall. On floors it serves to even out the floor and to compensate for loads as well as to protect against moisture, whilst at the same time having a low weight, a low structural height and virtually dry installation.

LUX ELEMENTS®-ELEMENT-VK is resistant to aging and is rotproof.

The LUX ELEMENTS®-ELEMENT-VK products are equivalent to the bonded panel-type sealing materials described in DIN 18534 Part 6. They are usable for the water action classes W1-I and W2-I as AIV-P. We would ask that you consult our Technical Department before using them in the water action class W3-I.

LUX ELEMENTS®-ELEMENT-VK has building authority approval, for making composite sealing in highly demanding wet areas, for the following load classes A and C according to the building rules list A, part 2 number 2.50. It also meets the requirements of the test principles for granting a general building authority approved test certificate for panel-type sealing materials used in conjunction with tiles and paving (PG-AIV-P of March 2018).

General Building Authority Approved Test Certificate No. P-AB/20802-06.5-2008 of tBU GmbH, Greven. Division preservation.



Furthermore, the LUX ELEMENTS®-ELEMENT-VK is a system component of the LUX ELEMENTS®-WATERTIGHT SOLUTION sealing system and fulfils the directive for the European Technical Approval for 'Seals for walls and floors in wet rooms - Part 3: Building kits with waterproof panels', ETAG 022-3.

Substrate

- firm, even, dry and clean
- free of vibrations
- good load bearing capacity

Recommended use

It is the duty of the installer to check the properties of the substrate. If necessary, additional measures must be taken before the attachment of LUX ELEMENTS®-ELEMENT-VK. Please refer to our LUX ELEMENTS®-ELEMENT-VK mounting instructions.

Wall applications

- Mounting on a stud frame/installation wall: Fasten with LUX ELEMENTS®-FIX fixing kits; minimum thickness 10 mm
- Mounting on a solid wall: Spot fix with mortar lumps (8–10 pcs/m²) made of LUX ELEMENTS®-COL-AK fixing adhesive and LUX ELEMENTS®-FIX hammer fix plugs; minimum thickness 6 mm
- Mounting on a solid wall: Apply adhesive adequately over the whole surface on even substrates with sufficient load-bearing capacity with LUX ELEMENTS®-COL-AK
- Free-standing partitioning wall: minimum thickness 50 mm

In general:

- Joint adhesion to one another with LUX ELEMENTS®-COL-MK mounting adhesive.
- In less or normally frequented damp or wet areas (e.g. in the private shower area), we recommend that you seal the floor/wall transition and the corners with LUX ELEMENTS®-DRY-DBV sealing tapes and LUX ELEMENTS®-DRY-ASK tape sealer as crack bridging. Adhere normal wall joints with LUX ELEMENTS®-ARM-100 SK and level out with LUX ELEMENTS® COL AK as crack bridging.
- When applying as a vapour barrier or in highly frequented damp or wet areas, the entire joint area is to be sealed with LUX ELEMENTS®-DRY-DBV and LUX ELEMENTS®-DRY-ASK (see ZDB information sheet 'Notes for the production of seals in conjunction with tile or panel claddings and coverings for indoor and outdoor use' status August 2019). Seal penetrations (e.g. of fixing kits) with LUX ELEMENTS®-DRY-DBV and LUX ELEMENTS®-DRY-ASK.
- Seal pipe penetrations with LUX ELEMENTS®-DRY-DBDZM and LUX ELEMENTS®-DRY-ASK.
- Lay ceramic coverings cavity-free using cementable flexible tile adhesive, maximum load 50 kg/m².

Floor applications

- Mounting on timber flooring: Prime with LUX ELEMENTS®-COL-HSV. Apply adhesive adequately over the whole surface on even substrates with sufficient load-bearing capacity with LUX ELEMENTS®-COL-AK.
- Mounting on mineral floor: Prime strongly absorbent substrates with LUX ELEMENTS®-COL-HSV. Spot fix with mortar lumps (maximum spacing 200 mm; 25–36 pcs/m²) made of LUX ELEMENTS®-COL-AK fixing adhesive; minimum thickness 30 mm.
- Mounting on mineral floor: Prime strongly absorbent substrates with LUX ELEMENTS®-COL-HSV. Apply adhesive adequately over the whole surface on even substrates with sufficient load-bearing capacity with LUX ELEMENTS®-COL-AK.

In general:

- Seal joints and penetrations (e.g. of fixing kits) with LUX ELEMENTS®-DRY-DBV and LUX ELEMENTS®-DRY-ASK.
- In the case of low to moderate loads (normal household barefoot use), we recommend a tile format $\geq 50 \times 50$ mm, laid cavity-free using cementable flexible tile adhesive. In the case of higher moisture levels, please refer to our General Building Authority Approved Test Certificate no. P-AB/20802-06.5-2008 from the tBU GmbH, Greven. Ensure that tiles have a sufficient breaking strength. Maximum pressure load 0.1 N/mm². In the case of higher loads (e.g. wheelchair use) please consult the LUX ELEMENTS technical department.

Storage

Panel goods are to be stored evenly in a cool, dry place and protected against direct sunlight. Slight curvature of panels caused by incorrect storage or transport, for example, does not represent a technical defect. Curving can be rectified through slight bending and counter-traction. Hard foam support elements must not come into contact with solvent-containing substances.

The relevant recommendations and guidelines, as well as DIN regulations, European standards and safety datasheets are to be observed. The recognised architectural and technical rules apply. We accept liability for the perfect quality of our products. Our processing recommendations are based upon trials and practical experience; they can, however, be no more than general instructions without assurance as to their quality, since we have no influence on the site conditions, on the execution of the work and the processing. With the issuing of this product datasheet previous versions cease to be valid.

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