

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.

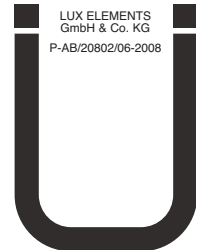
Technical data

Front

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

Back

Material surface: cemented coating with embedded glass-fibre fabric
 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-080147]
 Water vapour permeability sd: approx. 85 m
 Dimensional tolerances:
 Length and width: ± 2 mm
 Thickness: ± 10 %
 Squareness: ± 2 mm/1000 mm



Characteristics

Products from the LUX ELEMENTS®-ELEMENT-VK system correspond to the requirements of the moisture load groups A1, A2 and C for sealing materials in the information sheet "Notes for the production of seals in conjunction with tile or panel claddings and coverings for indoor and outdoor use" dated January 2005.

LUX ELEMENTS®-ELEMENT-VK has building authority approval, for making composite sealing in highly demanding wet areas, for the following load classes A1, A2, and C according to the building rules list A, part 2 number 1.10. It also meets the requirements of the test principles for granting a general building authority approved test certificate for liquid sealing materials used in conjunction with tiles and paving (Issued November 2005) General Building Authority Approved Test Certificate No. P-AB/20802/06.3-2008 of tBU GmbH, Greven.

Division preservation.

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

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.

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 and our topical brochure 'The base'.

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 January 2005). 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 LUX ELEMENTS®-COL-FLEX flexible 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), a ceramic covering (5 x 5 cm ≤ covering ≤ 33 x 33 cm) can be laid cavity-free using LUX ELEMENTS®-COL-FLEX flexible adhesive. In the case of higher moisture levels, please refer to our General Building Authority Approved Test Certificate no. P-AB/20802/06.3-2008 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.

System components

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|-------------------------|---------------------------|---------------------------|
| – LUX ELEMENTS®-DRY-DBV | – LUX ELEMENTS®-DRY-DBVIE | – LUX ELEMENTS®-DRY-DBDZM |
| | – LUX ELEMENTS®-DRY-DBVAE | – LUX ELEMENTS®-DRY-ASK |

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.

Die einschlägigen Empfehlungen, Richtlinien sowie DIN-Vorschriften, Europäische Normen und Sicherheitsdatenblätter sind zu beachten. Es gelten die anerkannten Regeln der Baukunst und Technik. Wir übernehmen die Gewähr für die einwandfreie Qualität unserer Erzeugnisse. Unsere Verarbeitungsempfehlungen beruhen auf Versuchen und praktischen Erfahrungen; sie können jedoch nur allgemeine Hinweise ohne Eigenschaftszusicherung sein, da wir keinen Einfluss auf die Baustellenbedingungen, auf die Ausführung der Arbeiten und die Verarbeitung haben. Mit der Herausgabe dieses Produktdatenblattes verlieren Vorangegangene ihre Gültigkeit.

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