

## 8.1 Schlüter®-KERDI

WATERPROOF MEMBRANE  
FOR SUBSTRATE PROTECTION

### Application and Function

Schlüter®-KERDI is a crack-bridging waterproof membrane made of soft polyethylene, which has been covered on both sides with a special fleece webbing to anchor the membrane in the tile adhesive.

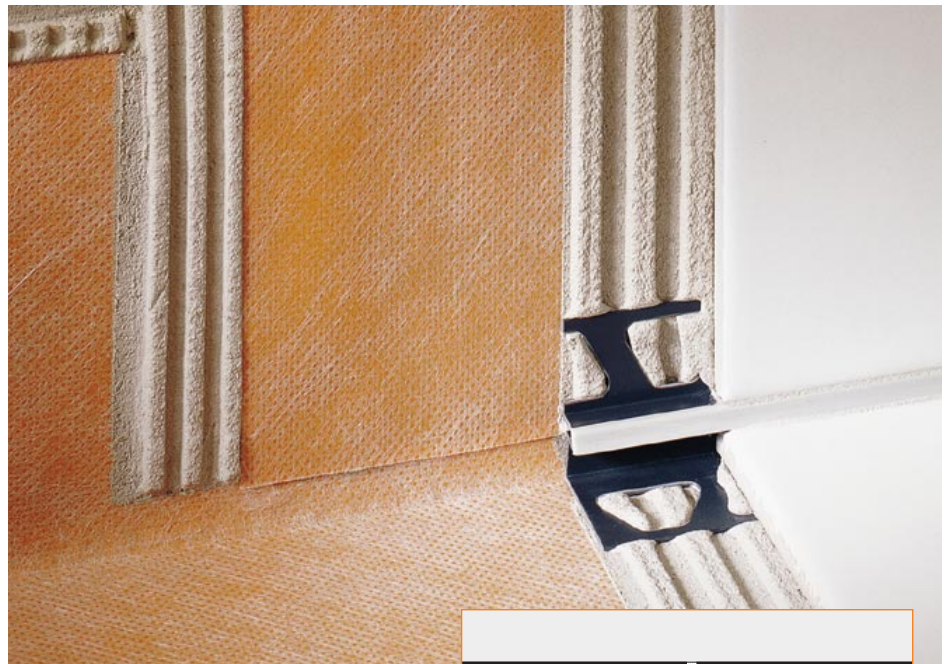
Schlüter®-KERDI was developed as a waterproofing membrane to be used in combination with ceramic tile coverings. The waterproofing membrane shall be bonded to an even, load-bearing substrate with an appropriate tile adhesive. The tiles are laid directly on Schlüter®-KERDI using the thin bed-method. Other trowel-applied covering materials, such as plaster or other coatings, can also be used.

In addition to Schlüter®-KERDI, pre-cut sections are available for inside and outside corners, as well as for pipe collars. To seal butt joints or corner joints, Schlüter®-KERDI Band, in widths of 8.5, 12.5, 15, 18.5, 25 cm, is available.

Schlüter®-KERDI-FLEX, in widths of 12.5 cm or 25 cm, is used to seal over expansion joints or flexible edge joints.

### Material

Schlüter®-KERDI is a polyethylene sealing material with water vapour retarding properties. The material is physiologically safe. Schlüter®-KERDI requires no special disposal.

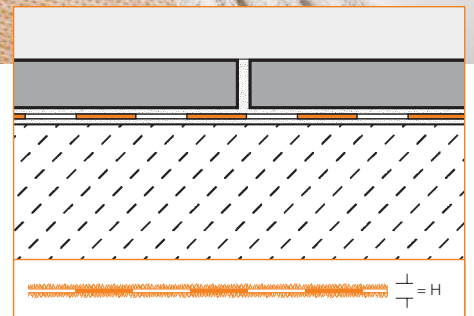


### Material Properties and Areas of Application:

Schlüter®-KERDI is waterproof and resistant to most chemicals commonly encountered in tiled environments. It is resistant to aging and does not rot. Furthermore, Schlüter®-KERDI is characterised by its elasticity.

In addition, Schlüter®-KERDI is highly resistant to saline solutions, acid and alkaline solutions, many organic solvents, alcohols, and oils. Information regarding its resistance to specific stresses can be provided if concentration, temperature, and period of exposure are known.

Verify that the substrate on which Schlüter®-KERDI shall be placed is even, load-bearing, and free from moisture. Surfaces which inhibit proper adhesion must be removed or appropriately treated.



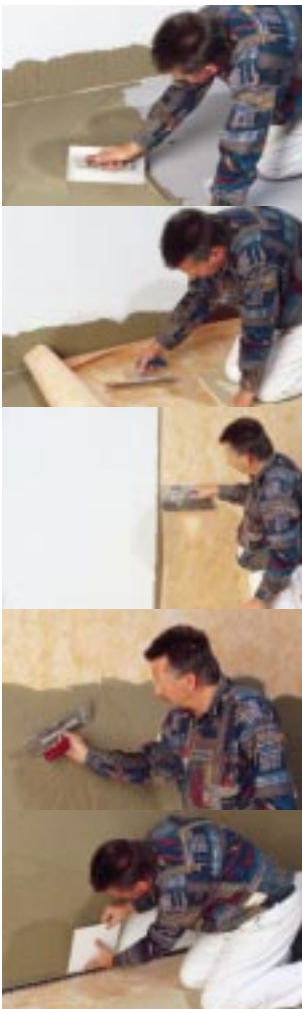


Schlüter®-KERDI is suitable for wall and floor surfaces where protection against the penetration of moisture or other harmful substances is necessary.

In such cases, a seal can be provided in areas subjected to damp of categories I to IV in accordance with the ZDB publication. Surfaces include, e.g., tub surrounds, gang showers, and areas surrounding swimming pools. Industrial applications include, e.g., the food industry, breweries, and dairies.

### Installation

1. The substrate must be clean, even, and load-bearing. The adhesive used for bonding Schlüter®-KERDI must be appropriate for the substrate and must penetrate and anchor the KERDI webbing. Generally, a dry-set adhesive is used. Cut Schlüter®-KERDI to size prior to application.
2. Apply the tile adhesive to the substrate using a 4 mm x 4 mm notch trowel (Note the open time of the adhesive). Press Schlüter®-KERDI fully into the adhesive. With the flat side of the trowel (or a float) at an angle, work the KERDI into the adhesive by applying pressure to the membrane in smooth, diagonal sweeps. Air bubbles must be avoided.
3. Joints can be constructed by overlapping the edges of the KERDI (5 cm) or by abutting the edges and covering the joint with Schlüter®-KERDI Band using a dry-set adhesive. When anticipating large quantities of water, an impervious adhesive, e.g., epoxy adhesive, may be used.
4. For inside and outside corners, adhere the pre-cut KERDI corner sections. For floor/wall connections, use the Schlüter®-KERDI Band. For pipes, use the Schlüter®-KERDI-KM pipe sleeves.
5. Connections to fixed building elements can be achieved by using suitable trowel-applied waterproofing materials or sealing compounds. Depending on the situation at the construction site, Schlüter®-KERDI, -KERDI Band or -KERDI-FLEX can be used to make a waterproof connection to building elements. This can be accomplished by using an appropriate two-part epoxy.
6. For connections to floor drains designed for thin-bed applications, a 50 cm x 50 cm cut section of Schlüter®-KERDI shall be clamped to the flange of the floor drain or bonded to the flange using a waterproof adhesive. The adjacent Schlüter®-KERDI sheet shall be carried over the cut section (leaving a 10 cm gap to the floor drain) and bonded, ensuring full coverage to eliminate any cavities.
7. Schlüter®-KERDI shall be separated at existing expansion, structural, or flexible edge joints. Cover the joints with Schlüter®-KERDI-FLEX sealing tape. To allow for larger movement, the center section of the Schlüter®-KERDI Band can be tucked into the cavity of the expansion joint prior to bonding.
8. Once the entire membrane – with joints, corners, and connections – has been completely bonded, and therefore waterproofed, the covering may be applied. No waiting period is required.
9. For tile installations using the thin-bed method, apply tile adhesive directly to the exposed Schlüter®-KERDI surface and lay the tiles, ensuring full coverage. Use a tile adhesive appropriate for the type of surface covering and intended use. A water-resistant dry-set adhesive is generally used. For acid-resistant coverings, use an epoxy adhesive to set and grout the tile.





**Product overview:**

**Schlüter®-KERDI**

Thickness = 0.2 mm

<b>Length = m</b>	<b>5</b>	<b>30</b>
Width = 1 m	•	•

**Schlüter®-KERDI-KEBA (Band)**

Ⓐ Thickness = 0.1 mm

<b>Length = m</b>	<b>5</b>	<b>30</b>
Width = 8.5 cm	•	•
Width = 12.5 cm	•	•
Width = 15 cm	•	•
Width = 18.5 cm	•	•
Width = 25 cm	•	•

**Schlüter®-KERDI-FLEX**

Ⓑ Thickness = 0.3 mm

<b>Length = m</b>	<b>5</b>	<b>30</b>
Width = 12.5 cm	•	•
Width = 25 cm	•	•

**Schlüter®-KERDI-KM (Pipe collar)**

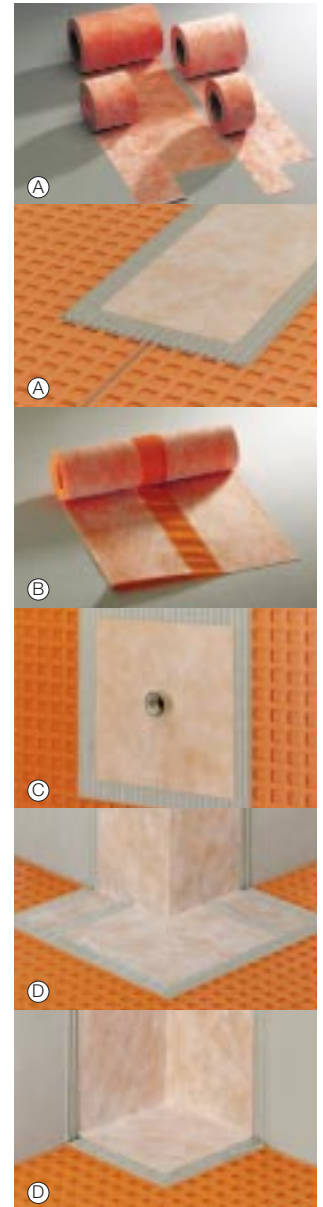
Ⓒ Thickness = 0,1 mm

<b>Dim. 17 x 17 / Hole 22 mm</b>	
KM 117 / 25	Set = 10 pieces
KM 5117 / 22	Set = 5 pieces

**Schlüter®-KERDI-KERECK  
(pre-cut sections of KERDI for corners)**

Ⓓ Thickness = 0,1 mm

<b>Internal Corner</b>	<b>KERECK 5 I</b>
(25 x 25 cm)	Set = 5 pieces
<b>External Corner</b>	<b>KERECK 5 A</b>
(17 x 17 cm)	Set = 5 pieces





8.1 Schlüter®-KERDI

**Text template for tenders:**

Supply and bond – including the required overlapping and connections – in a professional manner and according to the manufacturer’s specifications

\_\_\_\_\_ m<sup>2</sup> Schlüter®-KERDI as a crack-bridging polyethylene waterproofing membrane with fleece webbing laminated on both sides for the purpose of anchoring the membrane in the tile adhesive. To be used as waterproofing on an even, load-bearing substrate in the form of

- a wall made of \_\_\_\_\_
- floor made of \_\_\_\_\_

with appropriate

- adhesive as recommended by the supplier
- adhesive, Type \_\_\_\_\_

Connections to pipe ducts and floor drains

- are to be included in unit prices.
- are to be charged as extra.

Material: \_\_\_\_\_/m<sup>2</sup>  
 Labour: \_\_\_\_\_/m<sup>2</sup>  
 Total: \_\_\_\_\_/m<sup>2</sup>

**Text template for tenders:**

Bond in a professional manner and according to the manufacturer’s specifications

\_\_\_\_\_ per metre Schlüter®-KERDI-FLEX as polyethylene waterproofing tape with a fleece fabric laminated on both sides and a flexible fleece-free center zone approximately 30 mm wide for the purpose of sealing

- flexible butt joints
- flexible floor/wall connections
- flexible connections of the Schlüter®-KERDI waterproofing membrane to fixed elements.

Width of KERDI-FLEX:

- 12.5 cm
- 25 cm

Material: \_\_\_\_\_/m  
 Labour: \_\_\_\_\_/m  
 Total: \_\_\_\_\_/m

**Text template for tenders:**

Bond in a professional manner and according to the manufacturer’s specifications

\_\_\_\_\_ per metre Schlüter®-KERDI-KEBA as polyethylene waterproofing tape with a fleece webbing laminated on both sides in order to seal

- butt joints
- floor/wall connections
- connections

of the Schlüter®-KERDI waterproofing membrane to fixed elements.

Inside and outside corners

- are to be included in unit prices.
- are to be charged as extra.

Width of the Schlüter®-KERDI-KEBA:

- 8.5 cm
- 12.5 cm
- 15 cm
- 18.5 cm
- 25 cm

Material: \_\_\_\_\_/m  
 Labour: \_\_\_\_\_/m  
 Total: \_\_\_\_\_/m

**Text template for tenders:**

Supply and bond in a professional manner and according to the manufacturer’s specifications

\_\_\_\_\_ pieces Schlüter®-KERDI-KM as polyethylene pipe collar with a fleece webbing laminated on both sides.

Material: \_\_\_\_\_/Piece  
 Labour: \_\_\_\_\_/Piece  
 Total: \_\_\_\_\_/Piece