Schlüter®-DITRA 25
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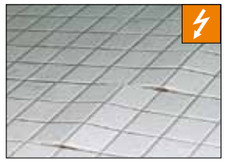
Schlüter®-DITRA 25 neutralises stresses between the substrate and the tile covering

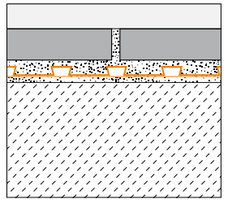


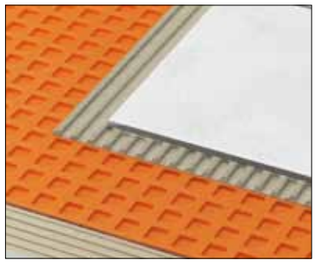
These failures can be prevented with Schlüter®-DITRA 25.

Not a pretty sight: cracks in a tile installation. Usually, these are the result of deformations and crack formations in the substrate. It is a well established fact that concrete and screeds shrink during the curring process and that heated and floating screeds in particular are subject to deformations and curling over an extended period of time. Many other substrates are also subject to deformations and are sensitive to moisture. Failure is imminent if tiles are bonded directly to these substrates.

Uncoupling and waterproofing

The solution to this problem is the Schlüter®-DITRA 25 mat, as an uncoupling, waterproofing, and vapour equalisation layer. Schlüter®-DITRA 25 prevents the transfer of stresses from the substrate to the tiled surface, protects moisture sensitive substrates, and neutralises vapour pressure by allowing moisture in the substrate to evaporate. Therefore, Schlüter®-DITRA 25 ensures lasting tile installations.





Uncoupling and waterproofing in a few easy steps:

1. The substrate must be clean, even, and load bearing.

2. Using a utility knife, cut Schlüter®-DITRA 25 to the appropriate size. Using a 3 x 3 mm or 4 x 4 mm notched trowel, apply tile adhesive according to the width of an individual Schlüter®-DITRA 25 course, and set the Schlüter®-DITRA 25 into the freshly applied tile adhesive. (Fig. 1)

3. Work Schlüter®-DITRA 25 into the adhesive using a float (work in one direction). Abut the side edges and ends of individual mat sections. (Fig. 2 and 3)

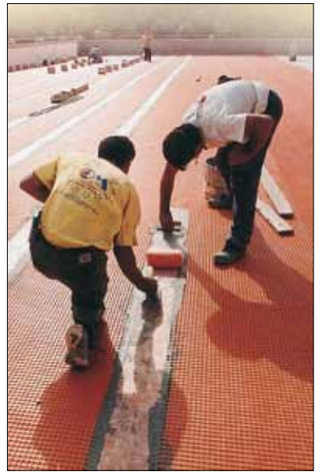
4. To create a waterproof tile covering exposed to large amounts of moisture (e.g. wet rooms), cover the joints with the 12.5 cm wide waterproofing band, Schlüter®-KERDI-KEBA. This is achieved by covering the abutting joint areas with the sealing adhesive Schlüter®-KERDI-COLL and fully embed the sealing band Schlüter®-KERDI-KEBA. (Fig. 4)

Uncoupling and waterproofing in a few easy steps:

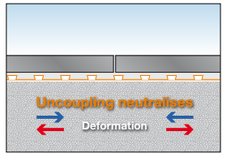
5. Fully embed the sealing band in the floor area over the Schlüter®-DITRA 25 mat with an overlap of at least 5 cm and directly over the substrate in the wall area, using Schlüter®-KERDI-COLL. (Fig. 5)

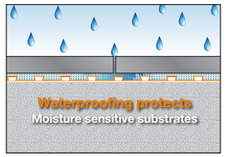
6. Immediately after the installation of the Schlüter®-DITRA 25 mat, the tiles can be set using the thin-bed method. Using a notched trowel suitable for the covering, the thin-bed adhesive is applied over the Schlüter®-DITRA 25 matting; the tiles are then solidly embedded ensuring full coverage. (Fig. 6)

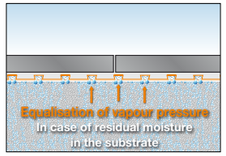
Schlüter®-DITRA 25 for inside and outside...



Material description Schlüter®-DITRA 25







Schlüter®-DITRA 25 is a polyethylene membrane with a grid structure of square cavities, each cut back in a dovetail configuration, and an anchoring fleece laminated to its underside. The tile adhesive mechanically bonds with the cut-back indentations on the topside of the matting.

Uncoupling: Schlüter®-DITRA 25 neutralises stresses between the substrate and the tiled surface.

Waterproofing: Schlüter®-DITRA 25 is waterproof and protects the substrate from moisture.

Equalisation of vapour pressure: Interconnected air channels between the cavities on the underside of the Schlüter®-DITRA 25 matting remain open. This allows moisture in the substrate to evaporate, thus neutralising vapour pressure.

Schlüter®-DITRA 25 delivery units

Schlüter®-DITRA 25	
Width:	100 cm
Length:	5 m / 30 m rolls

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Material and shopping checklist

You will need the following materials:

- ☐ **Schlüter®-DITRA 25**
- ☐ **Schlüter®-KERDI-KEBA**
- ☐ **Schlüter®-KERDI-COLL sealing adhesive**
- ☐ **Schlüter®-KERDI-DRAIN floor drain**
- ☐ **Tiles**
- ☐ **Grout**
- ☐ **Dry-set mortar (tile adhesive)**

Your retail store:

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Substrates

Substrates are always considered problematic if they are sensitive to moisture or are subject to shape changes.

It is generally known that **wood materials** are sensitive to moisture and undergo shape changes. Substrates comprised of **gypsum-based materials** are also sensitive to moisture and have a different coefficient of expansion than ceramic materials. For the same reason, **anhydrite (gypsum-based) screeds** are problematic substrates for tile. **Cementitious screeds** and **concrete shrink** considerably during curing (up to 1 mm per m), until a remaining moisture level of 2% has been reached, followed by residual shrinkage which continues for an extended period of time. The expansion coefficients of screed and concrete are almost double the coefficient of ceramics.
Due to remaining shrinkage and temperature changes, **floating screeds** are subject to constant curling, which frequently leads to cracks in tile installations. Due to thermal stresses from the heating tubes, **heated screeds** are especially prone to damage. Tile assemblies on **balconies** and **terrace**s are particularly exposed to severe stresses due to temperature changes. Cracked substrates and added sections (mixed substrates) are commonly encountered during **refurbishment**.
The Schlüter®-DITRA 25 uncoupling and waterproofing mat is always a safe solution for problematic substrates.

Other system solutions

Would you like to know more about Schlüter® products and system solutions for tile installation? The following brochures are available from our distribution partners. For more information, please visit our website at **www.schluter.co.uk.**

■ Schlüter®-DILEX – Profile system for permanently maintenance free movement joints and edge joints

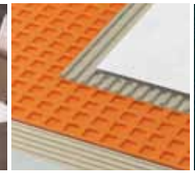
■ Schlüter® Balcony Systems: Complete solutions for new construction and renovation of balconies and terraces

■ Schlüter®-KERDI – Secure waterproofing membrane

■ Schlüter®-TREP – Slip resistant stair nosing profiles

■ Schlüter®-RONDEC and JOLLY – Profile systems for the design and edge protection of wall corners

■ Schlüter®-BEKOTEC-THERM – The ceramic thermal comfort floor



UNIVERSAL SUBSTRATE FOR DAMAGE FREE TILE INSTALLATIONS

Schlüter® Systems

INNOVATIVE PROFILES