

# UNIFIX

## TILE ADHESIVE

### Product Description:

- Test to DIN EN 12004, CIT.
- For interior and exterior use.
- Polymer modified.
- Powder component of UNIFIX-2K and UNIFIX-2K/6.
- Good slip resistance.

### Area of Application:

UNIFIX is used as a thin bed adhesive for the installation of vitrified and earthenware tiles, clinker, mosaic and natural stone materials with high water absorption, which are not sensitive to discoloration or translucent. UNIFIX is suitable for an assured installation to all substrates in accordance with DIN 18157, part 1 e.g., concrete, aerated concrete, render, plaster, cement-based and calcium sulphate-based screeds/ heated screeds, masonry work, plasterboard etc. It is suitable as an adhesive for lightweight construction boards e.g., those made with extruded polystyrene and for the installation of tiles onto mineral-based and dispersion-based Aquafin Pakistan bonded waterproof membranes in wet duty class A0 in accordance with the ZDB data sheet "bonded waterproof membranes".

### Substrate Preparation:

The substrate must be dry, load-bearing, adequately flat, free from penetrating cracks and free from separating substances such as oil, paint, laitance and loose areas. It must have largely closed surface texture with a surface condition and strength commensurate with its type. When installing tiles, the substrate, its preparation and

workmanship must conform DIN 18157 part 1. and strength commensurate with its type. When installing tiles, the substrate, its preparation and workmanship must conform DIN 18157 part 1. Prime porous substrates with ASO®-Unigrund. Calcium sulphate screeds must be abraded, vacuumed and as with all calcium sulphate-based substrates, primed with ASO®- Unigrund -K, diluted 1:3 with water. Heated screeds must be commissioned to recognised technical regulations prior to the installation of floor finishes. The readiness of the substrate to receive surface finishes is to be determined by moisture measurements with a carbide hygrometer (CM device). The cm moisture content may not exceed:

- $CT \leq 2.0\%$  for screeds on insulation or separating layers, in interior areas.
- CA without underfloor heating  $\leq 0.5\%$ .
- CA with underfloor heating  $\leq 0.3\%$ .

The CM measurement is to be carried out in accordance with FBH-AD work instruction taken from the technical information "coordination of cutout pints with heated screeds".

### Technical Properties:

Basis	: cement/sand (polymer modified) cement.
Colour	: grey.
Bulk density	: 1.3-1.4 kg/dm <sup>3</sup> .
Application/ Substrate temp	: +5°C to +25°C.
Pot life *)	: approx. 2 hours.
Open time *)	: approx. 10-15 minutes.
Grout after *)	: approx. 24 hours.
Foot traffic after *)	: approx. 24 hours.



Full service Conditions *)	: approx. 28 days immediately after use with water.
Cleaning	: immediately after use with water.
Testing	: DIN EN 12004 MPA NRW Test certificate 220002614-03.
Consumption	: approx. 2.5 kg/m <sup>2</sup> with a 6 mm notches trowel approx. 3.3 kg/m <sup>2</sup> with an 8 mm notched trowel approx. 4.1 kg/m <sup>2</sup> with a 100 mm notched trowel.
Packaging	: 25 kg bag.
Storage	: 12 months when stored dry in the original unopened packaging. Use opened from packaging use promptly.

\*Values relate to +20°C and 65% relative humidity. Higher temperatures shorten, lower temperature lengthen the given timings.

### Product Preparation:

Mix UNIFIX with clean water in a clean mixing bucket until homogenous.

### Mixing Ratio:

6.75 - 8.25 liters water: 25.0 kg UNIFIX. Allow to stand for a short while, then stir once again. Only prepare as much adhesive as can be used with in the pot life. Spread the mixed adhesive over the substrate surface and comb through with a suitable notched trowel dependent on the tile format and fix within the open time.

### Advice:

- When installing tiles in more demanding conditions externally (balconies and terraces),

- Use the highly elastic bonded waterproofing system AQUAFIN®-2K/M AND UNIFIX-2K.
- When fixing natural and synthetic stone, take the specific properties of the product (tendency to discolor, risk of curling) and the manufacturer's installation recommendations into consideration. We recommend that a trial area is fix.
- To avoid curling effects through water absorption, we recommend that when fixing agglomerate/synthetic stone ASODUR-EK98 is used.
- Thoroughly prime calcium sulphate-based substrates with ASO®- Unigrund -GE or ASO®- Unigrund -K (mix ratio 1:3 with water). To avoid the formation of ettringite UNIFLEX-AEK is especially suited for installing tiles to calcium sulphate-based substrates up to a residual moisture of 1.0% when heated and 1.5% when unheated (carbide hygrometer measurements).
- Adhesive, which has started to stiffen, should not be re-lifed through the addition of water or fresh mortar as there is a risk of inadequate strength development.
- Direct contact between cement-based adhesives and magnesite screeds leads to the destruction of the magnesite screed through chemical reaction. Prevent moisture ingress from the rear using suitable means. Mechanical abrade the magnesite substrate and prime with epoxy resin ASODUR-V360W mixed with water. 5% water as necessary (approx. 250g/m<sup>2</sup>). After waiting from between 12 and 24 hours, apply a second coat of ASODUR-V360W (approx. 300-350 g/m<sup>2</sup>). Blind with 0.5-1.0 mm quartz and wait for a further 12-16 hours then continue when the installation.
- In continuously we areas (swimming pools, water features, etc.), system thin-bed adhesives UNIFIX-2K, UNIFIX-2K/6 should be used with the buttering floating technique over the Aquafin Pakistan waterproof



membrane, appropriate for the conditions.

- Protect areas not being treated with from the effects of UNIFIX.
- Observe the relevant current regulations, e.g.:
  - DIN 18157, DIN18202
  - DIN 18352, EN 13813
  - DIN 18560, DIN 1055

The BEB information sheets distributed by the Bundserverband Estrich and Belag e.V. The technical information “coordination cut out points in heated floor constructions”.

The ADB information sheets, distributed by the professional association of the German tile industry:

[\*1] “Bonded waterproof membranes”

[\*2] “Tiling to calcium sulphate screeds”

[\*3] “ Movement joints in wall and floor tiles finishes”

[\*5] “Ceramic tiles, natural stone and cement-bound composite slabs on cement-based floor constructions with insulation”

[\*6] “Ceramic tiles, natural stone and cement-bound composite slabs on heated cement-based floor constructions”

[\*7] “Finishes in exterior areas”

[\*8] “Finishes on poured asphalt”

[\*9] “Tolerances in level”

[\*10] “Tolerances”

[\*11] “Cleaning, protecting, maintenance”

[\*12] “Swimming pool construction”

**Please observe a current valid EU Healthy & Safety Data Sheet.**