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SCHOMBURG Building Product Systems

Technical Data Sheet

UNIFIX®-AEK

Art.-No. 2 05406

Flexible thin bed adhesive for calcium sulphate screeds

CE 0432
SCHOMBURG GmbH & Co. KG
Aquafinstraße 2–8
D-32760 Detmold
07
EN 12004:2002-10
UNIFIX-AEK
Cement-based adhesive for floor and wall tiled finishes
C1 T

Properties:

- Especially suitable for calcium sulphate based substrates
- Impedes the microstructure damaging formation of ettringite
- Flexible
- Creamy
- Up to 5 mm bed thickness
- Conforms to DIN EN 12004, C1T

Areas of application:

UNIFIX-AEK is used as a thin bed adhesive for the installation of vitrified and earthenware ceramic tiles and those with lower water absorption < 0.5% (fully vitrified), clinker, mosaic and natural stone material that is neither sensitive to discolouration nor translucent. Preferred for work under time constraints. UNIFIX-AEK is suited for a secure installation on flat, load bearing substrates. It is furthermore suitable as a thin bed adhesive for installing tiles on to mineral based and dispersion based combined SCHOMBURG waterproof membranes.

Technical Data:

Basis:	aggregate, special cement, additives
Colour:	cement grey
Filler composition:	fine sanded
Bulk density:	1.45 kg/dm³
Substrate/ application temp:	+5° C to +25° C
Pot life *):	approx. 2 hours
Open time *):	approx. 15 minutes
Grout after *):	approx. 24 hours
Foot traffic after *):	approx. 24 hours
Full use after *):	approx. 28 days
Cleaning:	immediately after use with water
Testing:	DIN EN 12004, MPA NRW Test certificate 220002646-03
Consumption:	approx. 2.3 kg/m² with a 6 mm notched trowel, approx. 3.1 kg/m² with an 8 mm notched trowel, approx. 3.9 kg/m² with a 10 mm notched trowel
Packaging:	25 kg bag with a polythene liner
Storage:	dry, approx. 12 months in the original unopened container. Use opened containers promptly.

* The values relate to +20° C and 65% relative humidity; higher temperatures shorten, lower temperatures lengthen these given times.

Surface preparation:

UNIFIX-AEK is suited for a secure installation on all substrates in accordance with DIN 18157 part 1 and is especially suitable for calcium sulphate based substrates. The substrate must be load bearing, free from dust, contamination and separating agents and if necessary, abraded. The moisture content of the calcium sulphate based screed must be determined with a CM device (carbide hydrometer) before installation. Should it be necessary to install ceramic tiles on to calcium sulphate based screeds where the moisture content is higher than those given in the current regulations, a maximum of 1.5% with unheated screeds and 1.0% with heated screeds can be accepted. The finish to be installed in this case must have a minimum joint content

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of 2% (tile 40/40, 4 mm joint); with vapour permeable tiles the joint content may also be lower. Grouting is to be carried out with ASO-Flexfuge, HF05-Brillantfuge or CRISTALLFUGE. Moisture penetrating from the rear of the screed must be excluded. Calcium sulphate screeds must conform to DIN 18560, be adequately abraded, vacuumed and primed with ASO-Unigrund-GE. Heated screeds must be commissioned by heating to the recognised technical regulations prior to installing the floor coverings. When laying tiles, the substrate, substrate preparation and installation/application given in DIN 18157 part 1 is prevalent. To determine a substrate's readiness to receive floor finishes, carry out moisture measurements with a CM device (carbide hygrometer).

The CM moisture content may not exceed:
- CT 2.0 CM% for interior unbonded or floating screeds
- CA without underfloor heating 1.5 CM%
- CA with underfloor heating 1.0 CM%

The CM measurements are to be implemented in accordance with the current work instruction FBH-AD from the technical information "coordination of cut out points with heated floor constructions".

Product preparation:
Place clean water into a clean mixing bucket, add UNIFIX-AEK and mix with a drill (approx. 300-700 rpm) to a homogenous consistency.

Mixing ratio:
Approx. 7.5 litres : 25 kg UNIFIX-AEK

Allow to stand for 5 minutes and stir through once again. Do not prepare more adhesive than can be used within the pot life. Spread the prepared adhesive onto the surface of the substrate and comb through with a notched trowel suitable for the tile size. Lay finishing materials within the adhesive open time.

* The values relate to +20° C and 65% relative humidity.

Important advice:
- Prime calcium sulphate based screeds with ASO-Unigrund.
- On green cement-based substrates we recommend laying tiles with the elastic thin bed adhesives UNIFIX-S3 or UNIFIX-2K.
- Do not re-life adhesive that has started to stiffen by adding water or fresh mortar. There is a risk of inadequate strength development.
- When installing natural or synthetic stone, observe the manufacturer's specific product properties (tendency to discolour, risk of curling etc.). In cases of doubt carry out a trial area.
- To avoid curling effects due to water absorption, we recommend the use of ASODUR-EK98 with agglomerate / synthetic stone.
- Perimeter, bay and movement joints are to be brought through and constructed with suitable materials e.g. perimeter insulation strip RD-SK50.
- Direct contact between cement-based tile mortars and magnesite screeds leads to the destruction of the magnesite screed through a chemical reaction. Moisture penetration from the rear of the substrate is to be eliminated with adequate measures. The magnesite substrate must be mechanically abraded and primed with the epoxy resin ASODUR-V360W with a maximum addition of 5% water as necessary (approx. 250 g/m^2). After waiting for approx. 1 2-24 hours at +20° C, apply a second coat of ASODUR-V360W (approx. 300-350 g/m^2). Broadcast quartz sand of particle size 0.5-1.0 mm to excess into the wet second coat. After waiting for a further 12-16 hours remove the excess sand and install the floor finish.
- UNIFIX-AEK is a hydraulically curing mortar that must be protected from water and frost until fully cured, which can take several days when the weather conditions are unfavourable.
- Protect areas not to be treated with UNIFIX-AEK from its effects.

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- Observe the relevant current regulations.
  Therefore e.g. DIN 18157, DIN 18352, DIN 18560, EN 13813, DIN 18202, DIN 1055
  The BEB information sheets distributed by the "Bundesverband Estrich und Belag e.V."
  The technical information for the coordination of cut out points for heated floor constructions.
  The ZDB data sheets distributed by the German professional tile association:
  [*1] Advice for the installation of combined waterproofing with tile and slab cladding and finishes for interior and exterior areas.
  [*2] Finishes on calcium sulphate screeds.
  [*3] Movement joints in tile and slab cladding and finishes.
  [*4] Ceramic floor finishes with heavy duty mechanical demands.
  [*5] Ceramic tiles and slabs, natural and concrete stone/slabs on cement-based floor constructions with insulation.
  [*6] Ceramic tiles and slabs, natural and concrete stone/slabs on heated cement-based floor constructions.
  [*7] Tiled finishes in exterior locations.
  [*8] Swimming pool construction.

Please observe current valid EU safety data sheets.

GISCOSE ZP1