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## Technical Data Sheet

# UNIFIX®-SE

**Art.-No. 2 05418**

## System-based tile adhesive, rapid hardening, grey



### Properties:

- Rapid hardening.
- Rapid water binding.
- Polymer modified.
- Water and freeze/thaw resistant.
- In interior and exterior areas.
- Conforms to DIN EN 12004, C1 FT.
- Good slip resistance.

### Areas of application:

Preferred for installations under time pressure. UNIFIX-SE is used as a thin-bed adhesive for fixing vitrified and earthenware tiles, ceramic, clinker, mosaic and calibrated natural stone that is neither sensitive to moisture nor translucent. UNIFIX-SE is suited for a secure bond to flat sound substrates. UNIFIX-SE is suited for fixing tiles to mineral-based and dispersion-based SCHOMBURG bonded tanking systems. In continually wet areas, such as e.g. swimming pool surrounds and communal showers, or on heated screeds we recommend modification with 2.0 kg UNIFLEX-B per 25 kg adhesive in floor areas. On horizontal exterior surfaces such as balconies and terraces or green shrinking substrates modify UNIFIX-SE with 8.33 kg UNIFLEX-B per 25 kg.

### Technical Data:

Basis: cement, aggregate and additives  
Colour: grey  
Bulk density: approx. 1.5 kg/dm<sup>3</sup>

Pot life *):	approx. 30 minutes
Open time *):	approx. 10 minutes
Traffic after *):	approx. 4 – 6 hours
Grout after *):	approx. 4 – 6 hours
Fully cured *):	after 7 days
Testing:	DIN EN 12004, MPA-NRW Test certificate 220001534-02
Consumption:	approx. 2.3 kg/m <sup>2</sup> with a 6 mm notched trowel approx. 3.1 kg/m <sup>2</sup> with an 8 mm notched trowel approx. 3.8 kg/m <sup>2</sup> with a 10 mm notched trowel
Packaging:	25 kg bags, 6 kg bags
Cleaning:	Clean tools with water immediately after use.
Storage:	6 months under dry conditions in the original unopened packaging. Use up opened packaging immediately.
Application / Substrate temp.:	+5° C to +25° C

\* The values are valid at an ambient temperature of +20° C and at 65% relative humidity.

### Surface preparation:

UNIFIX-SE is suitable for a secure bond to all dimensionally stable substrates conforming to DIN 18157, part 1, e.g. concrete, aerated concrete, render, cement-based and anhydrite screeds and masonry work etc. The substrate must be dry, sound, adequately flat and free from penetrating cracks and separating media such as oil, paint, laitance and loose particles. It must have a largely closed surface with a surface condition and strength appropriate to its type. When fixing tiles the substrate preparation and application must follow DIN 18157, part 1. Prime

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porous substrates with ASO-Unigrund. Mechanically abrade anhydrite screeds followed by vacuuming and as with all calcium sulphate bound substrates thoroughly prime with ASO-Unigrund diluted 1:3 with water. Heated screeds must be heated up prior to laying finishes in accordance with recognised technological regulations. The suitability of substrates to take coverings is to be determined through moisture measurements with a CM-device (carbide hygrometer). The CM-moisture content may not exceed

- Cement screeds  $\leq 2.0\%$
- Anhydrite screeds without underfloor heating  $\leq 0.5\%$
- Anhydrite screeds with underfloor heating  $\leq 0.3\%$ .

The carbide hygrometer measurement is to be carried out in accordance with current operating instructions FBH-AD from the technical information "Coordination of cut out areas in heated floor construction".

## Product preparation:

Pour clean water into a clean mixing bucket and add UNIFIX-SE and mix with a rotating paddle (approx. 300 – 700 rpm) to a homogenous consistency.

## Mixing ratio:

5.5 – 6.0 litres water : 25.0 kg UNIFIX-SE  
1.3 – 1.5 litres water : 6.0 kg UNIFIX-SE

UNIFIX-SE can be made flexible through the addition of UNIFLEX-B. The setting time is however increased. For fixing tiles onto deformable substrates e.g. plasterboard, heated screeds or for fixing material with reduced porosity mix UNIFLEX-B with water at a ratio of 1:2. Approx. 6.5 litres gauging liquid : 25kg UNIFIX-SE  
Approx. 1.6 litres gauging liquid : 6.0kg UNIFIX-SE

Remix after a short maturing time. Do not mix more adhesive than can be used within the pot life. Spread the mixed adhesive on to the substrate and comb through with a suitable notched trowel dependent on tile format. Lay finishing materials within the adhesive open time. Always clean the mixing bucket as UNIFIX-SE acts

as an accelerator. Do not mix with other cement-based adhesives.

## Important advice:

- When laying natural or synthetic stone please observe the properties specific to the finishing material (tendency to discolour, risk of curling etc.) and the manufacturer's fixing recommendations. In cases of doubt, carry out a trial area.
  - In order to avoid curling effects due to water uptake we recommend fixing serpentinite, slate and agglomerate/synthetic stone that contain these natural stones, with ASODUR-EK98.
  - For fixing agglomerate/synthetic stones we recommend the use of 25 kg CRISTALLIT-flex modified with 2.0 kg UNIFLEX-B.
  - For fixing tiles to asphalt of classes IC 10 and IC 15 modify 25 kg UNIFIX-SE with 4.2 kg UNIFLEX-B.
  - Carefully prime calcium sulphate based substrates such as ASO-NM 15 with ASO-Unigrund-GE or ASO-Unigrund-K (mix ratio 1:3 with water). In order to avoid ettringite formation with calcium sulphate based substrates UNIFIX-AEK is suited for fixing on to these substrates up to residual moisture content of 1.0% on heated or 1.5% on unheated construction (carbide hygrometer method).
  - Do not add water to adhesive that has started to stiffen in order to re-life it, as there is a danger of inadequate strength build-up.
  - When laying tiles in heavy duty exterior areas (balconies and terraces) install the highly elastic bonded waterproofing systems AQUAFIN-2K or AQUAFIN-2K/M.
  - In continuously wet areas (swimming pools, containers etc.) we recommend the use of system adhesives UNIFIX-2K, UNIFIX-2K/6 on the particular SCHOMBURG waterproofing material suitable for the application. Observe the properties specific to the finishing material.
  - Protect areas not involved from the effects of UNIFIX-SE.
  - Direct contact between cementitious tile adhesives and magnesium screeds leads to the destruction of the
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magnesium screed via chemical reaction. Negative water pressure from the background must be eliminated through appropriate measures. Mechanically abrade the magnesite substrate and prime with the epoxy resin ASODUR-D2 with the addition of max. 5% water (approx. 250 g/m<sup>2</sup>). Apply a second coat of ASODUR-D2 after 12 to 24 hours at +20° C (300 – 350g/m<sup>2</sup>). Whilst the second coat is still wet, blind the surface with 0.5 – 1.0 mm quartz sand. After a further waiting time of approx. 12 –16 hours the product is ready for fitting finishing materials.

- Follow relevant current regulations. For e.g.

DIN 18157

DIN 18352

DIN 18560

DIN EN 13813

DIN 1055

The BEB-information sheets distributed by Bundesverband Estrich und Belag e.V.

The technical information "Coordinating cut-out areas in heated floor construction".

The ZDB information sheets distributed by the Fachverband des deutschen Fliesengewerbes:

[\* 1] "Information on the installation of waterproofing in combination with ceramic tiles and slabs in internal and external areas".

[\*2] "Ceramic tiles and slabs, natural stone and concrete blocks on calcium sulphate screeds".

[\*3] "Movement joints in ceramic tile and slab coverings".

[\*5] "Ceramic tiles and slabs, natural stone and concrete blocks on cementitious floor constructions with insulation layers".

[\*6] "Ceramic tiles and slabs, natural stone and concrete blocks on heated cementitious floor constructions".

[\*7] "Cladding construction with tiles and slabs external to buildings."

Please observe current valid EU safety data sheets.

## GISCOSE ZP1

This technical data sheet is a translation from the German language version and does not consider local building codes or legal requirements. It shall be used as general reference for the product. Legally binding is only the German technical data sheet or the latest Data sheet from one of our foreign subsidiaries inside their sales territory.