



## Technical Data Sheet

# SOLOFLEX-SE

Art.-No. 2 05434

## Flexible thin bed adhesive, rapid setting

### Properties:

- Tested to DIN EN 12004, C1FT
- Rapid setting
- Rapid water binding
- Resistant to water and freeze-thaw cycles
- For interior and exterior areas
- Polymer modified
- Smooth application
- Sag resistant

### Areas of application:

SOLOFLEX-SE is preferred as a thin bed adhesive for applications under time constraints for the installation of vitrified and earthenware tiles, ceramic with low water absorption  $\leq 0.5\%$  (fully vitrified), clinker, mosaic and calibrated natural stone that is neither sensitive to discolouration nor translucent. SOLOFLEX-SE is suitable for a secure installation on flat load bearing substrates. SOLOFLEX-SE is suitable for installing tiles onto bonded SCHOMBURG tanking systems in continuously wet areas such as swimming pool decks and public showers, or onto heated screeds. On horizontal areas externally such as e.g. balconies and terraces modify SOLOFLEX-SE with 8.33 kg UNIFLEX-B per 25 kg.

### Technical Data:

Basis:	Sand/cement (polymer modified)
Colour:	grey
Bulk density:	approx. 1.35 kg/dm <sup>3</sup>
Application/ substrate temp:	+5 °C to +25 °C
Pot life *):	approx. 30 to 40 minutes
Open time *):	approx. 10 to 20 minutes
Grout after *):	approx. 4 hours
Foot traffic after *):	approx. 4 hours
Full loading/service *):	after approx. 7 days
Testing:	DIN EN 12004, MPA NRW test certificate 220002645-03

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

### Substrate preparation:

SOLOFLEX-SE is suitable for a secure installation onto dimensionally stable substrates in accordance with DIN 18157 part 1 e.g. concrete, aerated concrete, render/plaster, cement-based and calcium sulphate based screeds, masonry work etc.

The substrate must be dry, load bearing, suitably flat, free from penetrating cracks and free from separating substances such as e.g. oil, paint, laitance and loose parts. It must have a mostly closed surface and have a surface condition and strength appropriate for its type. When installing tiles DIN 18157 is decisive regarding the substrate, substrate preparation and workmanship. Prime porous substrates with ASO-Unigrund. Calcium sulphate screeds must be abraded, vacuumed and as with all calcium sulphate based substrates thoroughly primed with ASO-Unigrund-GE.

Heated screeds must be commissioned to recognised technical regulations before installing floor finishes.

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

- CT  $\leq 2.0\%$  for screeds on insulation or separating layers in interiors
- CA without underfloor heating  $\leq 0.5\%$
- CA 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 with heated floor constructions".

### Product preparation:

Mix SOLOFLEX-SE with clean water in a clean mixing bucket until homogenous.

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Mixing ratio:

1.0 litre water : 3.6 – 4.0 kg SOLOFLEX-SE or

6.25 – 7.0 litres water : 25 kg SOLOFLEX-SE

Allow to stand for 3 minutes, then remix.

Do not mix more SOLOFLEX-SE than can be used within the pot life.

Spread SOLOFLEX-SE onto the surface of the substrate and comb through with a suitable notched trowel for the tile format. Install tiles within the adhesive open time.

Always clean out mixing containers as setting SOLOFLEX-SE acts as an accelerator. Do not mix with other cement containing mortars.

## Estimating & Supply:

Consumption:

approx. 2.30 kg/m<sup>2</sup> with a 6 mm notched trowel

approx. 3.10 kg/m<sup>2</sup> with an 8 mm notched trowel

approx. 3.80 kg/m<sup>2</sup> with a 10 mm notched trowel

Packaging: 25 kg bags with a PE liner

## Cleaning & Equipment Maintenance:

Clean tools with water immediately after use.

## Storage & Shelf Life:

6 months when stored dry in the original unopened container. Use opened packaging promptly.

## Important advice:

- When using ASOFLEX-AKB use ASODUR-EK98 to install the tiles.
- When installing natural or synthetic stone observe the specific properties of the material (tendency to discolour, risk of curling etc.) and the installation recommendations of the stone/tile producer. In cases of doubt carry out a trial area.
- To avoid curling effects due to water absorption we recommend using ASODUR-EK98 when installing serpentinite, schist, and with agglomerate/synthetic stones that contain these natural stones.
- For the installation of agglomerate/synthetic stone we recommend our thin bed adhesive CRISTALLIT-flex modified with 2.0 kg UNIFLEX-B per 25 kg.

- For the installation of tiles or slabs onto poured asphalt of hardness classification IC10 and IC15 we recommend that SOLOFLEX-SE is modified with 2 kg UNIFLEX-B per 25 kg.
  - Perimeter, bay, structural and movement joints are to be reflected through or inserted in the designated position and stopped with a suitable material e.g. edging foam. Stress relieving joints are to be sealed or alternatively secured against height off-sets and formed as a movement joint in the surface finish.
  - Thoroughly prime calcium sulphate based substrates such as e.g. ASO-NM15 with ASO-Unigrund-GE or ASO-Unigrund-K (mixing ratio 1:3 with water). In order to avoid the formation of ettringite with calcium sulphate based substrates UNIFIX-AEK is suited for the installation onto these substrates up to a residual moisture content of 1.0% on heated screeds or 1.5% with unheated constructions, measured with a carbide hygrometer.
  - Do not add more water or fresh mortar to a thin bed adhesive that has started to set in order to re-life it. There is a risk of inadequate strength development.
  - When installing tiles or slabs in highly demanding external areas (balconies/terraces) we recommend the use of the elastic waterproofing system AQUAFIN-2K/M and UNIFIX-2K.
  - In continuously wet areas (swimming pools, containers etc.) we recommend the use of the system thin bed adhesives UNIFIX-2K, UNIFIX-2K/6 onto the SCHOMBURG waterproofing product suitable for the particular area. Observe the specific properties of the covering material.
  - Protect areas where SOLOFLEX-SE will not be applied, from exposure.
  - Instead of ASO-Unigrund-GE, ASO-Unigrund-K diluted 1:3 with water can also be used.
  - SOLOFLEX-SE is a hydraulically setting mortar that should be protected from water and frost contact until fully cured, which under unfavourable weather influences can take several days.
  - The direct contact between cement-based tile adhesives and magnesium-based screeds leads to the
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destruction of the magnesite screed. Rear penetrating moisture from the substrate must be eliminated with suitable measures. The magnesite substrate is to be mechanically abraded and primed with the epoxy resin INDUFLOOR-IB2360, see TDS for application instructions.

- Observe the relevant current regulations. Therefore e.g. DIN 18157, DIN 18352, DIN 18560, DIN 13813, DIN 18202, DIN 1055  
The BEB information sheets distributed by the "Bundesverband Estrich und Belag e.V."  
The information sheet of the expert group EURO-F-E-N Schloss Raesfeld: tiles, slabs, natural and concrete stone/slabs onto poured asphalt in interiors.  
The professional information for the coordination of cut out points for heated floor construction.  
The ZDB information 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. (January 2005).  
[\* 2] Ceramic tiles and slabs, natural and concrete stone/slabs on calcium sulphate screeds (January 2000).  
[\* 3] Movement joints in tile and slab cladding and finishes.  
[\* 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.

Please observe a valid EU safety data sheet.

Low chromate in accordance with TRGS 613

GISCODE: ZP1