



Technical Data Sheet

SOLOFLEX

Flexible Thin Set Tile Adhesive

Art.-No. 2 05430

Properties:

SOLOFLEX is a high-quality polymer-modified thin bed adhesive, according to EN 12004, resistant to water and freeze thaw changes.

SOLOFLEX is stable and easily workable, SOLOFLEX is suitable for wall and floor areas.

SOLOFLEX is suitable for interior and exterior use.

Areas of application:

SOLOFLEX is used as a thin tile adhesive for ceramic coatings (even fine earthenware), mosaic, clinker, and brick tiles. For the fixing of natural stones the properties of the material have to be regarded.

SOLOFLEX is suitable for secure applications on all surfaces according to DIN 18 157 part. 1 as for masonry, plaster, gas concrete, brick work and gypsum board as well as heated screed applications.

Suitable as adhesive for light weight boards made of wood-wool, gypsum plaster, gypsum fibre, or extruded polystyrene.

SOLOFLEX can also be used as a system adhesive in conjunction with AQUAFIN-waterproofing layers in swimming-pools.

Technical Data:

Basis:	Sand/cement (plastic modified)
Colour:	Cement grey
Bulk density:	approx. 1.37 kg/l
Application temperature:	+5° C up to +25° C
Pot life*:	approx. 1 hours
Open time*:	approx. 15 minutes
Jointable*):	after 24 hours
Traversable*:	After approx. 12 hours
Cleaning:	In green condition with water
Consumption:	depending on surface and tiles, minimum 1.3 kg/m ²
Storage:	dry, at least 12 month, use opened bags promptly.

Delivery: 25 kg bag with PE inlet
6 kg bag (6 pc in a cardboard)

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

Surface preparation:

The surface has to be dry, of load carrying capacity, and free from dirt, dust and release agents. Further information according to DIN 18157 part 1 must be adhered to.

Absorptive surfaces are to be prepared with ASO-Unigrund Primer. Smooth concrete surfaces have to be roughened, anhydrite screed has to be abraded and primed with ASO-Unigrund Primer.

Product preparation:

SOLOFLEX is mixed with clean water until a clump-free pasty mortar is obtained.

Mixing ratio:

1.00 l water to 3.55 kg SOLOFLEX

7.00 l water to 25 kg SOLOFLEX

After a short period of maturing (approx. 3 min) the mixture has to be stirred again.

Do not cover more surface than required, keeping within the working time of up to 60 minutes. The ready to use adhesive is applied with surface continuity and troweled with a suitable toothed trowel. The tiles are to be affixed with light pressure. For tiling of swimming pools, the spacings between the tiles requires correct and quick handling, so that all tiles may be layed in the time given for the adhesive to set.

Annotation:

SOLOFLEX contains cement and reacts alkaline with moisture. Therefore:

- protect skin and eyes
- in case of irritation wash thoroughly with clear cool water
- in case of eye contact seek immediate medical treatment.

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Important advice:

- When installing ASOFLEX-AKB as under tile waterproofing, we recommend setting tiles with ASODUR-EK98.
- For fixing tiles or pavers on areas highly subject to movement and stress such as balconies and terraces, a high elastic waterproofing/tiling system such as AQUAFIN-2K/M and UNIFIX-2K should be used.
- When fixing natural stone tiles it is imperative that the specific product details of the stone (coloration, etc.) and the supplier's recommendations are regarded. If in doubt, carry out tests in advance.
- To avoid warping of agglomerate/natural stone tile edges due to water penetration, we recommend grouting with ASODUR-EK98.
- Prime calcium sulfate based screeds with a universal primer such as ASO-Unigrund. To reduce the effect of ettringite in calcium sulfate based substrates with up to 1% of remaining humidity for heated constructions and 1.5% remaining humidity for unheated constructions (according to up to date measures provided by FBH-AD – official handling regulations) we recommend using UNIFIX-AEK.
- Do not add additional water or fresh product to thin bed adhesives which have already begun to hardened in an attempt to restore workability, this can result in reduced strength development.
- For permanent under water areas (Swimming pools, water tanks, etc.), we recommend using our thin bed adhesive system UNIFIX-2K, UNIFIX-2K/6 in combination with the appropriate SCHOMBURG waterproofing system.
- Direct contact between cementitious tile adhesives and magnesite screeds can cause damage/ destruction of the magnesite screed due to a chemical reaction, known as magnesia. Negative side moisture vapour transmission from the soil through the substrate must be treated. The magnesite screed should be mechanically abraded and primed with the epoxy INDUFLOOR-IB2360, diluted with 5% water (approx. 250 g/m²). After waiting approx. 12 – 24 hours at 20°C apply a second coat of INDUFLOOR-

IB2360 (approx 300 – 350 g/m²). Fully broadcast quartz sand (grain size 0.5 – 1.0 mm) into the still fresh coating. After a further 12 – 16 hours of drying, tiling work can be continued.

- SOLOFLEX is a hydraulically hardening adhesive which could take up to several days to completely harden under the influence of bad weather conditions. Protect the application from exposure to rain and frost.
- Protect surfaces not to be treated prior to the application of SOLOFLEX.

Consult and adhere to all up to date, valid rules and regulations.

The up to date, active rules and regulations are to be adhered to:

(German Industrial Standards such as):
BEB-Info Sheets (Bundesverband Estrich und Belag e.V. - German Federal Association for screed and surface laying) Including technical information interface coordination for heated flooring constructions.
Other technical literature currently handed out by the German Federal tiling Industry, such as:

- 1) "references on sealants in connection with ceramic tiling and slabs for interior and exterior use" (August 2000)
- 2) " settlement joints on surfaces covered with tiles and concrete tiling"
- 3) see 1.
- 4) "Ceramic Tiles and slabs, Natural Stone and cast stone on concreted surfaces, floor constructions with layers of insulation"
- 5) "Ceramic Tiles and slabs, Natural Stone and cast stone on heated concrete floor constructions"
- 6) "surface constructions covered with tiles and slabs for outdoor Building surroundings"

Please adhere to current EC-Materials Safety Data Sheet (MSDS). Low chromate content according to TRGS 613.

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