



SOLOFLEX

Art.-No. 2 05430

Flexibilized thin and medium bed tile adhesive

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold 04 2 05430	
EN 12004 SOLOFLEX Cement-based adhesive for the installation of tiles in interior and exterior areas	
C2	
Reaction to fire:	Class E
Bond strength, as tensile adhesion strength after dry storage:	≥ 1 N/mm ²
Durability, as tensile adhesion strength after water immersion:	≥ 1 N/mm ²
warm storage:	≥ 1 N/mm ²
freeze/thaw cycles:	≥ 1 N/mm ²

	
0799 SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold 18 204990 SANIFLEX-EU Construction kit for producing waterproofing for walls and floors in wet rooms	
0799-CPR-150	
ETA-17/0469 ETAG 022-1	
Reaction to fire:	E
Release of dangerous substances:	see SDS
Water vapour permeability:	
with ASO-UnigrundD:	s _w = 4.4m
with ASO-UnigrundGE/K:	s _w = 9m
with ASO-UnigrundS:	s _w = 6.8m
Water impermeability to EN 13967:	waterproof
Crack bridging ability:	category 1: 0.4 mm ≥ 0.5 MPa
Tensile strength:	category 2: waterproof ≥ 0.5 MPa
Joint bridging ability:	category 2: waterproof
Waterlightness at penetrations:	category 2: waterproof
Water resistance:	category 2: ≥ 0.5 MPa
Temperature resistance:	category 2:
Resistance to alkalis:	Temperature resistant
Workability:	category 2: alkali resistant
Thickness:	applicable at least 0.5 mm

based screeds, heated screeds, masonry work and moisture resistant plasterboard etc as well as for the installation of tiles to mineral-based and dispersion-based bonded SCHOMBURG waterproof membranes in wet duty classifications A0, A and B e.g. wet rooms, communal showers, swimming pool surrounds and swimming pools.

Modification with the elastic UNIFLEX-B considerably increases the deformability and tensile adhesion strength of SOLOFLEX. Dependent on the addition rate, class C2E and deformability classes S1 and S2 are achieved, which is especially recommended for large format tiles. This can greatly compensate for shear stresses. See **Product preparation**. SOLOFLEX is suitable for use in interior rooms in accordance with the French VOC regulation. SOLOFLEX is suitable for use in interior rooms in accordance with the AgBB evaluation scheme (Committee for Health-related Evaluation of Building Products), the French VOC by-law and the Belgian Royal Decree C-2014/24239. Very low emissions in accordance with GEV-EMICODE, which as a rule leads to positive evaluations within the framework of building certification systems according to DGNB, LEED, BREEAM and HQE. Highest quality level 4, row 8 in accordance with the DGNB criterion "ENV 1.2 Local environmental impact".

The product is a component of the SANIFLEX construction kit in accordance with ETAG 022-Teil 1.



- very low emission
- for heated floors
- for interior and exterior use
- for walls and floors
- normal setting
- up to 10 mm thickness
- tested to DIN EN 12004 ,C2TE

Areas of application:

SOLOFLEX is used as a thin- and medium-bed adhesive for the installation of vitrified, earthenware and ceramic tiles with lower water absorption ≤ 0.5% (fully vitrified), clinker, mosaics and natural stone, which is not sensitive to discoloration or translucent. SOLOFLEX is suitable for an assured installation to all substrates covered in DIN 18157, part 1 e.g. concrete, aerated concrete, render/plaster, cement-based and calcium sulphate

Technical Data:

Basis:	sand/cement, additives (polymer modified)
Colour:	cement grey
Mortar bed thickness:	2 mm to 10 mm
Application / substrate temperature:	+5° C to +25° C
Pot life *):	approx 2 hrs
Open time *):	approx 30 mins

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Grout after *):	approx 24 hrs
Foot traffic after *):	approx. 24 hrs
Full service conditions *):	after approx 7 days
Testing:	DIN EN 12004, MPA NRW 220001532-02-01 Systembestandteil der ETA-17/0469 GEV-Licence emissions testing in accordance with EMICODE from the GEV, AgBB scheme, French VOC by-law
Consumption:	dependent on the substrate and material installed approx. 2.3 kg/m ² with a 6 mm notched trowel approx. 3.1 kg/m ² with an 8 mm notched trowel approx. 3.7 kg/m ² with a 10 mm notched trowel
Cleaning:	immediately after use with water
Packaging:	25 kg bag, 6 kg bag
Storage:	12 months when stored dry in the original unopened packaging. Use opened packaging promptly.

*) These values relate to +23° C and 50% relative humidity.

Substrate preparation:

The substrate must be dry, load-bearing, adequately flat, be free from penetrating cracks and separating substances such as oils, paints, laitance and loose areas. It must have a closed surface texture and exhibit surface characteristics and strength consistent with its type. When installing tiles, the substrate, its preparation and workmanship must conform to DIN 18157, part 1. Prime absorbent substrates with ASO-Unigrund. Calcium sulphate screeds must be abraded, vacuumed and as with all calcium sulphate based substrates primed with e.g. ASO-Unigrund/ ASO-Unigrund-S (mix ratio 1:1 with water).

If large format tiles are to be laid on calcium sulphate screeds, then we recommend that ASODUR-V360W is used as the primer due to its greater barrier effect. Prior to the installation of tiled finishes on to heated screeds, they must be commissioned to recognised technical regulations. The readiness of a substrate to receive finishes is to be determined by moisture measurements using a carbide hygrometer (CM device).

The moisture content should not exceed:

- CT 2.0 CM% for screeds on insulation or separating layers in interiors
- CA without underfloor heating 0.5 CM%
- CA with underfloor heating 0.3 CM%

The moisture measurements are to be carried out in accordance with current FBH-AD work instructions taken from the technical information on the coordination of cut-out points with heated floor constructions.

Product preparation:

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

Mixing ratio:

6.75 - 8.0 litres of water : 25 kg SOLOFLEX

Allow to stand for 3 minutes, then re-mix. Do not mix more SOLOFLEX than can be used within the pot life. Spread the mixed adhesive over the substrate surface and comb through with a notched trowel appropriate to the tile size. Install the tiles within the adhesive open time.

When installing large format tiles or tiled finishes in more demanding conditions or where there are temperature fluctuations, we recommend that SOLOFLEX is modified with UNIFLEX-B. The deformation to DIN EN 12002 is considerably increased and the adhesive open time extended. To improve workability, mix UNIFLEX-B with water and then mix with SOLOFLEX until homogenous.

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Mix ratio, highly deformable especially suitable for wet duty class B0

(conforms to class C1E S2, deformation > 5 mm):

8.33 kg UNIFLEX-B : approx. 2 litres water :

25 kg SOLOFLEX

Mix ratio, highly deformable

(conforms to class C2E S2, deformation > 5 mm):

4.17 kg UNIFLEX-B : approx. 3.75 litres water :

25 kg SOLOFLEX

Mix ratio, deformable

(conforms to class C2E S1, deformation > 2.5 mm):

2 kg UNIFLEX-B : approx. 5.4 litres water :

25 kg SOLOFLEX

Important advice:

- When installing tiles in more demanding conditions externally to B0 (balconies and terraces), we recommend the highly elastic bonded waterproofing system AQUAFIN-2K/M and UNIFIX-2K. SOLOFLEX modified with UNIFLEX-B can also be used as the adhesive (8.33 kg UNIFLEX-B : 25 kg SOLOFLEX).
- When fixing natural and synthetic stone, take the specific properties of the product and the manufacturer's installation recommendations into consideration (tendency to discolour, risk of curling). We recommend to fix a trial area.
- When installing large format tiles greater than 50 × 50 cm, a skim coat should be applied to the rear of the tile or the installation should be carried out using the Floating-Buttering technique.
- To avoid curling effects through water absorption, we recommend that when fixing agglomerate/synthetic stone ASODUR-EK98 or ASODUR-DESIGN is used.
- To avoid the formation of ettringite, UNIFIX-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-lifted 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. Mechanically abrade the magnesite substrate and prime with the epoxy resin ASODUR-V360W mixed with max. 5% water as necessary (approx. 250 g/m²). After waiting from between 12 and 24 hours, apply a second coat of ASODUR-V360W (approx. 300 - 350 g/m²). Blind the second coat, whilst still wet, with 0.5 - 1.0 mm quartz sand. Wait for a further 12 - 16 hours then continue with the installation.
- In continuously wet areas (swimming pools, water features etc.), system thin-bed adhesives UNIFIX-2K, UNIFIX-2K/6 should be used with the buttering-floating technique on green concrete shells over the SCHOMBURG waterproof membrane, appropriate for the conditions. SOLOFLEX modified with UNIFLEX-B can also be used as the adhesive - highly deformable S2.
- Protect areas not being treated from the effects of SOLOFLEX.
- SOLOFLEX is a hydraulically hardening mortar and should be protected from water and frost penetration until completely hardened, which may take a few days in unfavourable weather conditions.
- Observe the relevant current regulations. E.g. DIN 18157, DIN 18352, DIN 18560, EN 13813, DIN 1055
The BEB information sheets, distributed by the Bundesverband Estrich und Belag e.V.
The technical information "coordination of cut out points in heated floor constructions".

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The ZDB 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 tile finishes"
- [* 4] "Heavy duty ceramic floor 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"
- [* 13] "Large-format tiles"

Please observe a current valid EU Safety Data Sheet.

GISCODE: ZPI

