



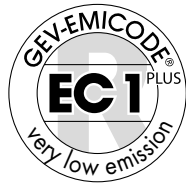
Technical Data Sheet

SOLOFLEX-FAST

Art.-No. 2 05439

Flexibilized rapid setting thin and medium bed tile adhesive

CE	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2 - 8 D-32760 Detmold 11 2 05439	
EN 12004 SOLOFLEX-FAST Fast setting, cement-based adhesive with increased performance for the installation of tiles in interior and exterior areas C2 F	
Reaction to fire:	Class A1/A1 _{fl}
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
tensile adhesion strength after warm storage:	≥ 1 N/mm ²
tensile adhesion strength after freeze/thaw cycles:	≥ 1 N/mm ²
Early tensile adhesion strength after 6 hrs:	≥ 0.5 N/mm ²



- conforms to DIN EN 12004, C2 FT
- rapid hardening
- long pot life
- slump resistant
- for interior and exterior use
- with rapid crystalline water binding
- polymer modified
- smooth application
- resistant to water and freeze / thaw cycles
- up to 15 mm bed thickness

Areas of application:

As a rapid hardening, slump resistant thin and medium bed adhesive, SOLOFLEX-FAST is the preferred choice for work under time constraints for the installation of vitrified and earthenware tiles, ceramic tiles with low water absorption ≤ 0.5% (fully vitrified), clinker, mosaics, cementitious tiles, cement-based slabs and natural stone that is not translucent nor sensitive to discolouration.

Despite its rapid setting nature, SOLOFLEX with FAST technology possesses a long pot life and open time. Also when working and substrate temperatures are

low, the water is bound in a crystalline form so that a noticeably quicker strength development can be detected in comparison with conventional rapid setting adhesives. SOLOFLEX-FAST is suitable for the secure fixing of tiles to flat, sound substrates and for tiling onto mineral based and dispersion based SCHOMBURG waterproof membranes, in moderate wet duty areas. On horizontal external areas such as e.g. balconies and terraces, modify 25 kg of SOLOFLEX-FAST with 8.33 kg of UNIFLEX-B.

Technical Data:

Basis:	cement, aggregate and additives
Colour:	grey
Bulk density:	approx. 1.24 kg/dm ³
Pot life *):	approx. 45 to 60 mins
Open time *):	approx. 20 mins
Foot traffic *):	after approx. 3 hrs
Grout after *):	approx. 3 hrs
Fully serviceable *):	after approx. 7 days
Consumption:	
	approx. 2.5 kg/m ² with a 6 mm notched trowel
	approx. 3.3 kg/m ² with an 8 mm notched trowel
	approx. 4.2 kg/m ² with a 10 mm notched trowel
	approx. 6.0 kg/m ² with a 12/20 mm half moon - medium bed trowel
	approx. 6.0 kg/m ² with a 10 mm Flowline notched trowel
Packaging:	25 kg bags
Cleaning:	clean tools immediately with water after use
Storage:	dry, 9 months in the original unopened packaging. Use opened packaging promptly.
Application/substrate temperature:	+5° C to +25° C

*) These values relate to +20° C and 65% relative humidity

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Substrate preparation:

SOLOFLEX-FAST is suitable for the secure installation of tiles to dimensionally stable substrates conforming to DIN 18 157 part 1 e.g. concrete, aerated concrete, render / plaster, cement-based and calcium sulfate based screeds, masonry work etc. The substrate must be dry, sound, adequately flat, free from penetrating cracks and free from separating substances such as e.g. oil, paint, laitance and loose areas. It must have a surface condition and strength consistent with its type. When installing tiles, substrate preparation must be carried out to DIN 18 157 part 1. Prime porous substrates with ASO-Unigrund. Calcium sulfate based screeds must be abraded, vacuumed and as with all calcium sulfate based substrates, thoroughly primed with ASO-Unigrund-GE. If large format tiles are to be installed, we recommend that priming is carried out using ASODUR-V360W due its greater barrier forming capacity. Heated screeds must be commissioned in line with recognized technical regulations before tiling. To ascertain a surface's readiness to receive tiles, carry out moisture measurements with a carbide hygrometer (CM device). The CM moisture content may not exceed:

- Cement-based screeds $\leq 2.0\%$ for floating or unbonded screeds
- Calcium sulfate screeds without underfloor heating $\leq 0.5\%$
- Calcium sulfate screeds with underfloor heating $\leq 0.3\%$

The CM measurement is to be carried out in accordance with the current work instructions from the technical information of the FBH-AD "Coordination of cut out areas with heated floor constructions".

Product preparation:

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

Mixing ratio:

1.8 - 2.0 litres water : 6 kg SOLOFLEX-FAST

7.5 - 8.5 litres water : 25 kg SOLOFLEX-FAST

On horizontal external surfaces such as e.g. balconies and terraces, SOLOFLEX-FAST is to be modified with UNIFLEX-B. Furthermore we recommend the addition of UNIFLEX-B to SOLOFLEX-FAST when installing large format tiles greater than 60 x 60 cm. Modification with the UNIFLEX-B elastifier improves the deformability and tensile adhesion strength of SOLOFLEX-FAST. Dependent on the modification, class S2 can be achieved, which is especially recommended for large format tiles greater than 60 x 60 cm. This considerably compensates against shear stresses which can lead to de-bonding under unfavourable external conditions. To improve the workability, add water once the SOLOFLEX-FAST has been mixed with UNIFLEX-B.

The addition of UNIFLEX-B will shorten the open time. The deformability to DIN EN 12004 is considerably increased so that class S2 is achieved.

Mixing ratio:

2 kg UNIFLEX-B : 6 kg SOLOFLEX-FAST :

approx. 0.5 litres water

8.33 kg UNIFLEX-B : 25 kg SOLOFLEX-FAST :

approx 2.0 litres water

After standing for 3 minutes, mix through once again. Do not mix more SOLOFLEX-FAST than can be used within the pot life.

Spread SOLOFLEX-FAST adhesive onto the surface of the substrate and comb through with the appropriately sized notched trowel for the tile format. Install the finishing material within the open time. Always clean mixing containers as setting SOLOFLEX-FAST functions as an accelerator. Do not mix with other cement-based mortars.

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Important advice:

- Not suitable for underwater areas.
- When installing natural or agglomerate stone always observe their specific product properties (tendency to discolour, risk of curling etc.) and the stone producer's installation recommendations. We recommend that a test area is carried out.
- To safely avoid curling effects caused by water absorption when installing serpentinite, slate and with agglomerate / synthetic stone which contain these natural stones, we recommend the use of ASODUR-EK98 or ASODUR-Design.
- When installing agglomerate / synthetic stone we recommend that 25 kg SOLOFLEX-FAST is modified with 2.0 kg UNIFLEX-B.
- When installing tiles or slabs to poured asphalt of hardness class IC10 we recommend that 25 kg SOLOFLEX-FAST is modified with 2.0 kg UNIFLEX-B.
- Perimeter, bay, structural joints and movement joints are to be brought through or incorporated in the designed position and blocked with an appropriate medium e.g. edging strip RD-SK50. Saw cut joints are to be adhesively sealed or secured against uneven levels.
- Thoroughly prime calcium sulfate based substrates such as ASO-NM15 with ASO-Unigrund-GE, ASO-Unigrund-S, ASO-Unigrund-K (mixing ratio 1:3 with water) or ASODUR-V360W. ASODUR-V360W has the greatest blocking effect of the substrate. To avoid the formation of ettringite with calcium sulfate based substrates, UNIFIX-AEK is suitable for tiling to these substrates up to residual moisture levels, measured with a carbide hygrometer, of 1.0% when heated and 1.5% when unheated.
- When installing large format tiles greater than 50 x 50 cm, apply a scratch coat to the rear of the tile to improve adhesion, or fix using the floating-buttering method.
- Do not re-life adhesives that has already started to harden, by adding more water or fresh adhesive as there is a risk of inadequate strength development.
- When installing tiles in heavy duty external areas (balconies/terraces) we recommend the installation of the highly elastic waterproof membrane system AQUAFIN-RS300, AQUAFIN-2K/M or AQUAFIN-2K.
- In permanently wet areas (swimming pools, containers etc.) we recommend the use of the system thin bed adhesives UNIFIX-2K, UNIFIX-S3, UNIFIX-2K/6 onto the SCHOMBURG waterproof membrane suitable for the area of application. Observe the specific properties of the finishing products to be installed.
- Protect areas where SOLOFLEX-FAST is not being used, from its effects.
- Instead of ASO-Unigrund-GE, ASO-Unigrund-K diluted 1:3 with water can also be used.
- SOLOFLEX-FAST is a hydraulic setting mortar that is to be protected from water and frost penetration until fully cured, which in adverse weather conditions can take a few days.
- Direct contact between cement-based adhesives and magnesium screeds leads to destruction via chemical reaction. Therefore rising moisture from the substrate must be eliminated through appropriate measures. Mechanically roughen the magnesite surface and prime with the epoxy resin ASODUR-V360W with the addition of max. 5% water as necessary (approx. 250 g/m²). Wait for approx. 12 - 24 hours at +20 °C then apply a second coat of ASODUR-V360 (approx. 300 - 350 g/m²). Blind the second coat whilst it is still wet with an excess of 0.5 - 1.0 mm quartz. Wait for a further 12 - 16 hours before further work.
- Follow the relevant current regulations. For e.g.
DIN 18157 DIN 18352
DIN 18560 EN 13813
DIN 18202 DIN 1055
The BEB technical sheets issued by the federal association for screeds and finishes Technical sheet from the experts EURO-F-E-N Schloss Raesfeld "Tiles, slabs, natural and concrete slabs on poured asphalt in interior areas"

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The professional information "Coordination of cut out points with heated floor constructions"

The technical construction information on natural stone from the Natural Stone Association

The ZDB technical sheets issued by the Professional Association of the German tile industry:

[* 1] "Bonded waterproof membranes"

[* 2] "Finishes on calcium sulfate screeds"

[* 3] "Movement joints in tile and slab finishes"

[* 4] "Heavy duty ceramic tiled finishes"

[* 5] "Ceramic tiles and slabs, natural and concrete slabs on cement-based floor constructions on insulation"

[* 6] "Ceramic tiles and slabs, natural and concrete slabs on heated cement-based floor constructions"

[* 7] "Exterior tiling"

[* 8] "Finishes on poured asphalt"

[* 9] "Height variations"

[* 10] "Tolerances"

[* 11] "Cleaning, protection, maintenance"

Please observe a current valid EU safety data sheet.

Low-chromate.

