MONOFLEX-FB

S1 flexible fluid bed tile adhesive

Material number	Contents	Unit of quantity	Packaging	Colour
204306001	25	KG	Bag	Cement grey

Product features

- Cementitious flow bed adhesive with accelerated setting times
- C2 E S1 in accordance with DIN EN 12004
- Can be walked on and joined after ca. 6 hours
- Pot life of ca. 45 - 55 minutes

Advantages

- Tested system product
- Heavy and large tiles and boards do not sag in the floor areas
- Effortless application thanks to flow bed consistency

Areas of application

- For laying ceramic tiles and boards using flow bed laying
- For laying joint strips, decoupling mats and boards using flow bed laying
- To create tiled finishes that can be walked on and used rapidly
- for heated and unheated substrates
- For floor

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Existing test certificates

- Emission tests
- Conformity DIN EN 12004

Technical Data

Material properties

Base material	sand cement Additive
Classification of the reaction to fire in accordance with DIN EN 13501-1	E

Mixing

Increased flexibility (deflection of ≥ 5 mm)	UNIFLEX-F quantity addition: 8.33 kg on 25 kg container
Maturing time	approx. 3 minutes
Water addition	from 6 l to 6.4 l

Application

Substrate temperature	from 5 °C to 25 °C
Consumption pro m² and mm layer thickness	approx. 1.2 kg/m²
Foot traffic after	approx. 6 hours
Consumption with 6mm notched trowel	2.2 kg/m²
Consumption with 8mm notched trowel	3.4 kg/m²
Consumption with 10mm notched trowel	4.2 kg/m²
Pot life	approx. 45 - 55 minutes
Application temperature	from 5 °C to 25 °C
Hardening time / full resilience	approx. 7 days
Open time	approx. 30 minutes

Application technology

Aids/tools

- Toothed trowel
- Stirrer
- Trowel
- Occupational safety equipment

Suitable substrate

- Firmly adhering tiled finishes
- Concrete, cement screed (CT), floor levelling compounds, calcium sulphate screeds (CA, CAF), mastic asphalt screeds (AS), magnesia screeds (MA)
- Cement-based plaster, gypsum plaster, cement-lime plaster, lightweight plaster
- Tile bearing elements, gypsum fibre boards, gypsum boards, raised floors, cement and fibre cement boards, decoupling mats & panels, dry screeds
- Bonded waterproofing; the suitability of the substrate must be checked and observed, taking into account the planned water impact class of DIN 18534 and DIN 18531.

Substrate preparation

Requirement for substrate

1. Load-bearing
2. Dry
3. Even
4. Sealed in the surface
5. Free of cracks
6. Free of adhesion inhibiting substances and laitance layers

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Measures for substrate preparation

The requirements in DIN 18157 - 1 and the recognised technical standards are essential for preparing the application substrates.

Preparing the surface

1. Check the application substrate and determine the moisture content using the CM method.
2. Remove impurities, adhesion-reducing substances and binder accumulations/laitance layers.
3. Prime absorbent substrates with ASO-Unigrund-GE or ASO-Unigrund-K.
4. Prime non-absorbent substrates with ASO-Unigrund-S.

Moisture content of the CM measurement

	max. CM moisture readings
CT for screeds on insulation or a separating layer	≤ 2.0 CM %
CA **without** floor heating system	≤ 0.5 CM %
CA **with** floor heating system	≤ 0.3 CM %

Usage

Mixing

1. Put the water into a clean mixing bucket and mix with the powder component with a stirrer to produce a homogeneous, lump-free mass.
2. After a settling period of ca. 3 minutes, thoroughly homogenise the compound again.
3. Do not mix more material than can be applied during the pot life.
4. Do not mix with other cementitious mortars!

Application

1. Spread the mixed mortar evenly across the substrate surface and comb through with a suitable notched trowel to suit the board size.
2. Apply the surfacing materials within the adhesive open time.

Cleaning tools

Clean tools thoroughly with water after use.

Storage conditions

Storage

Store in a cool and dry place. Min. 9 months in the original canister. Promptly use opened canister.

Disposal

Product leftovers can be disposed of in accordance with disposal code AVV 17 01 01.

Notes

- When laying natural stone and synthetic stone, the product-specific properties of the coating materials (tendency to discolour, risk of curling, etc.) and the laying recommendations of the manufacturer must be taken into account. We recommend carrying out trial laying!
- Rooms, surfaces and building components that expect water exposure in accordance with DIN 18534, DIN 18531 and DIN 18535 must be protected by bonded waterproofing.
- Calcium sulphate screeds must be protected with the ASO®-Unigrund-GE or ASO®-Unigrund-K primer prior to laying. Calcium sulphate screeds must be protected with a barrier primer (e.g. ASODUR®-GBM) when laying large format tiles.
- Do not stir or add water to existing material that has already set in order to make it workable again.
- Use a barrier primer such as ASODUR®-GBM to protect substrates that are sensitive to moisture, such as magnesite screeds, from direct contact.
- Protect the product from water, frost, draughts, direct sunlight and mechanical loads until it has dried completely.

Planning, inspection of substrates and building site circumstances, laying, grouting and subsequent care of the work must be done in accordance with the relevant DIN standards and recognised rules of technology (e.g. the ZDB sheets of the Zentralverband Deutsches Baugewerbe e.V.) in the latest version.

GISCODE: ZP1

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Annotations

Conformity / Declaration / Verification

CE

SCHOMBURG GmbH & Co. KG
Aquafinstraße 2–8
D-32760 Detmold (Germany)
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2 04306

EN 12004
MONOFLEX-FB
Normal hardening, cement-based mortar
for increased demands in interior and exterior areas
for tiling and board-laying work

C2

Reaction to fire:	Class E
Bonding strength as	
Tensile adhesion strength after dry storage:	≥ 1 N/mm²
Durability as	
Tensile adhesion strength after water storage:	≥ 1 N/mm²
Tensile adhesion strength after warm storage:	≥ 1 N/mm²
Tensile adhesion strength after alternating frost/thaw storage:	≥ 1 N/mm²