

MONOFLEX-fast

Flexible rapid-setting adhesive mortar S1



Material number	Contents	Unit of quantity	Packaging	Colour
204410001	25	KG	Bag	Cement grey
204410003	5	KG	Bag	Cement grey

Product features

- Cementitious rapid set adhesive with effective crystalline binding of the mixing water
- C2 FTE S1 in accordance with DIN EN 12004
- Can be walked on and joined after ca. 3 hours
- Pot life of ca. 45 - 60 minutes
- Adhesive bed thicknesses von 1 mm bis 15 mm

Advantages

- rapid construction progress
- Convenient compaction properties
- Variable adhesive bed thicknesses of up to 15 mm

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Areas of application

- for laying ceramic tiles and boards using thin-bed and medium bed laying
- To create tiled finishes that can be walked on and used rapidly
- for heated and unheated substrates
- For walls and floors
- For interior and exterior use

Existing test certificates

- Test report in accordance with DIN EN 12004
- EMICODE licence
- AgBB certificate

Technical Data

Material properties

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

Mixing

Maturing time	approx. 3 minutes
Water addition	from 7.75 l to 8.25 l

Application

Consumption pro m ² and mm layer thickness	approx. 1.1 kg/m ²
Foot traffic after	approx. 3 hours
Consumption with 6mm notched trowel	2.3 kg/m ²
Consumption with 8mm notched trowel	3.1 kg/m ²
Consumption with 10mm notched trowel	3.8 kg/m ²
Pot life	approx. 45 - 60 minutes
Application temperature	from 5 °C to 25 °C
Hardening time / full resilience	approx. 7 days
Open time	approx. 20 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.

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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

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!
5. Always clean the mixing container, as setting MONOFLEX-fast acts as a catalyst.

Cleaning tools

Clean tools thoroughly with water after use.

Storage conditions

Storage

Store in a cool and dry place. Min. 12 months in the original canister. Promptly use opened canister.

Disposal

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

Emission behaviour / building certification systems

- Very low emissions in accordance with GEV-EMICODE, which normally results in positive evaluations within the scope of building certification systems in accordance with DGNB, LEED, BREEAM, HQE.
- Maximum quality level 4, line 8 in accordance with DGNB criteria "ENV 1.2 Risks to the local environment".

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Notes


- Not suitable for areas submerged under water!
- Prime calcium sulphate-bound substrates carefully with ASO[®]-Unigrund-GE, ASO[®]-Unigrund-S, ASO[®]-Unigrund-K (mix ratio 1:3 with water) ASODUR[®]-GBM or ASODUR[®]-SG3-superfast! ASODUR[®]-GBM and ASODUR[®]-SG3-superfast have the greatest barrier effect on the substrate.
- 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.
- 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

Annotations

Conformity / Declaration / Verification

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold (Germany) 18 2 04410	
EN 12004 MONOFLEX-fast Rapid-hardening, cement-based mortar for increased demands in interior and exterior areas for tiling and boardlaying work	
C2 F	
Reaction to fire:	Class E/E _{fl}
Bonding strength as	
Tensile adhesion strength after dry storage:	≥ 1 N/mm ²
Durability as	
Tensile adhesion strength after water storage:	≥ 1 N/mm ²
Tensile adhesion strength after warm storage:	≥ 1 N/mm ²
Tensile adhesion strength after alternating frost/thaw storage:	≥ 1 N/mm ²
Early tensile adhesion strength, after 6 hours:	≥ 0.5 N/mm ²

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