MONOFLEX-S2

Highly flexible accelerated tile adhesive S2

Material number	Contents	Unit of quantity	Packaging	Colour
204309001	20	KG	Bag	light grey

Product features

- Cementitious tile adhesive
- C2 E S2 in accordance with DIN EN 12004
- Pot life of ca. 90 minutes
- Open time of ca. 20 minutes
- Can be walked on and joined after ca. 6 hours
- Adhesive bed thicknesses von 1 mm bis 10 mm

Advantages

- Enables tiles and boards to be laid on 'green' substrates
- Reliable drying - even with mega formats
- Convenient compaction properties

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Areas of application

- For laying ceramic tiles and boards using thin-bed laying
- Especially for laying large and mega formats
- for laying on young cement screeds with a residual moisture content of ≤ 4.0 CM-% in tile format up to 120 cm x 120 cm
- for laying on young cement screeds in accordance with DIN 18560 - from the 3rd to 10th day after completion of the screed work in tile format up to 120 cm X 120 cm
- for heated and unheated substrates
- For walls and floors
- For interior

Existing test certificates

- Test report in accordance with DIN EN 12004
- EMICODE licence
- AgBB certificate
- AbP (general test certificate from the building authorities)

Technical Data

Material properties

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

Mixing

Mixing time	approx. 3 minutes
Water addition	from 5.6 l to 6.4 l

Application

Substrate temperature	from 5 °C to 25 °C
Pot life	approx. 90 minutes
Consumption pro m² and mm layer thickness	approx. 0.9 kg
Foot traffic after	approx. 6 hours
Consumption with 4 mm notched trowel	1.3 kg/m²
Consumption with 6mm notched trowel	1.9 kg/m²
Consumption with 8mm notched trowel	2.5 kg/m²
Consumption with 10mm notched trowel	3.2 kg/m²
Consumption with 20mm trowel with semicircular teeth	6.2 kg/m²
Available after	approx. 6 hours
Hardening time / full resilience	approx. 7 days
Open time	approx. 20 minutes

Application technology

Aids/tools

- Toothed or centre bed trowel
- Stirrer
- Trowel
- Occupational safety equipment

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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

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.

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. Do not mix more material than can be applied during the pot life.

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.

Inbetriebnahme von Fußbodenheizungen

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 AVV 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

- When laying tiles and natural stone coverings on young substrates or cement screeds (< 28 days) with an increased residual moisture of >2. 0 CM-%, this is a special construction that is subject to the applicable recognized rules of technology and/or the relevant DIN standards.
- When laying tiles in large or mega format, the tile manufacturer's laying instructions and product data sheets must be followed.
- 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

Annotations

Conformity / Declaration / Verification

CE

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24
204309

EN 12004
MONOFLEX-S2
Zementhaltiger Mörtel für erhöhte Anforderungen im Innen- und Außenbereich für Fliesen- und Plattenarbeiten

C2

Brandverhalten:	Klasse E
Verbundfestigkeit, als Haftzugfestigkeit nach Trockenlagerung:	≥ 1 N/mm²
Dauerhaftigkeit, als Haftzugfestigkeit nach Wasserlagerung:	≥ 1 N/mm²
Haftzugfestigkeit nach Warmlagerung:	≥ 1 N/mm²
Haftzugfestigkeit nach Frost-/Tauwechsel-Lagerung:	≥ 1 N/mm²