

UNIFIX®-S3

Highly flexible tile adhesive



Material number	Contents	Unit of quantity	Packaging	Colour
204330001	20	KG	Combination packs	Cement grey
204330002	33,3	KG	Set	Cement grey

Areas of application

- For laying ceramic tiles and boards using thin-bed laying
- Especially for laying tiles and boards on critical and 'green' substrates
- for heated and unheated substrates
- For walls and floors
- for interior and exterior use

Product features

- Cementitious tile adhesive
- C2 TE S2 after DIN EN 12004
- Highly flexible
- Pot life of approx. 45 minutes
- Open time of ca. 30 minutes
- Can be walked on and joined after ca. 24 hours

Advantages

- Tested system product
- Enables tiles and boards to be laid on 'green' substrates
- With decoupling effect

Existing test certificates

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

UNIFIX[®]-S3

Technical Data

Material properties

Product components	2 component system
Base material	sand cement Additive Liquid polymer
Classification of the reaction to fire in accordance with DIN EN 13501-1	E

Mixing

Maturing time	approx. 3 minutes
Water addition	Non-slump: 20 kg up to 0.25 l water 33.3 kg up to 0.40 l water Flow bed: 20 kg up to 1.65 l water 33.3 kg up to 2.75 l water

Application

Pot life	approx. 45 minutes
Consumption pro m ² and mm layer thickness	approx. 1.3 kg/m ²
Foot traffic after	approx. 24 hours
Consumption with 6mm notched trowel	2.8 kg/m ²
Consumption with 8mm notched trowel	3.7 kg/m ²
Consumption with 10mm notched trowel	4.7 kg/m ²
Application temperature	approx. 5 - 25 °C
Hardening time / full resilience	approx. 7 days
Open time	approx. 30 minutes

Processing equipment

Aids/tools

- Toothed trowel
- Stirrer
- Trowel
- Plastering trowel
- Occupational safety equipment

Preparing the substrate

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. Prime absorbent substrates with ASO-Unigrund-GE, ASO-Unigrund-K or ASO-Unigrund-PLUS.
2. Prime non-absorbent substrates with ASO-Unigrund-S or ASO-Unigrund-PLUS.
3. Calcium sulphate screeds must be roughened and vacuumed.
4. Prime the calcium sulphate screeds with ASODUR-GBM if large formats are to be laid.
5. Heated screeds must be heated in accordance with recognised standards before installation of coverings.
6. Check the application substrate and determine the moisture content using the CM method.
7. UNIFIX-S3 tiles can be laid on cement-based screeds as soon as the screed withstands loads. Concrete substrates after 3 months regardless of the moisture content.
8. Surface irregularities in substrates that are ready to receive can be compensated for in advance with SOLOPLAN-30-PLUS, for example.

UNIFIX®-S3

Application

Mixing

1. Put the liquid component into a clean mixing bucket and mix with the powder component to produce a homogeneous, lump-free mass.
2. For easier application, up to 9% water in relation to the A component may be added.
3. After a settling period of approx. 3 minutes, thoroughly homogenise the compound again.
4. 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.
3. In exterior areas and continuously wet areas, ensure that there are no cavities in the bedding for the tiles and boards.

Cleaning tools

Clean tools thoroughly with water after use.

Storage conditions

Storage

Store in a frost-free, cool and dry place. At min. 5 - 40 °C for 12 months in the original canister. Promptly use opened container.

Disposal

Product leftovers can be disposed of in accordance with disposal code AVV 17 01 01 and AVV 08 04 10.

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".

Notes

- Protect surfaces that are not to be treated from the effects of UNIFIX®-S3!
- 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!
- Do not add water or new mortar to existing UNIFIX®-S3 mortar that has already set in order to make it workable again. (Risk of inadequate strength development)
- In continuously underwater areas (swimming pools, containers, etc.), we recommend using UNIFIX®-S3 on SCHOMBURG waterproofing materials suitable for the respective area of application!
- Direct contact between cement mortar and magnesite screeds leads to the destruction of the magnesite screeds through a chemical reaction known as "magnesite pouring". Moisture pressure from the rear of the substrate must be prevented through appropriate measures.
Mechanically roughen up the magnesite substrate and prime with ASODUR®-GBM epoxy resin. While the coat is still fresh, apply plenty of quartz sand with a grain size of 0.5 - 1.0 mm. Perform the laying work after a further waiting time of approx. 12 - 16 hours. Remove the unbound quartz sand meticulously.
- Full hardening can take several days if the weathering influences are unfavourable; protect from exposure to water and frost!
- Direct sunlight and draughts can result in a skin forming prematurely or to the open time being shortened.
- Pools, containers, etc. may only be filled after 28 days at the earliest.
- The relevant guidelines (DIN, ZDB data sheets [German construction industry association]) still insist on a 28-day waiting time for cement-based application substrates. Our years of experience with UNIFIX®-S3 elastic thin-bed mortar have shown that non-destructive placement is also certainly possible on newer substrates. For this reason, we recommend agreeing this special construction method in the contract.
- Prerequisite for tiling on 'green' substrates is compliance with the following criteria: The arrangement of movement joints complies with the relevant guidelines. Use a notched trowel of ≥ 10 mm in order to be able to accommodate minor deformations in the substrate. Heating screed constructions must generally be completed from the 21st day after laying the screed in accordance with the relevant guidelines (ZDB data sheet). The earliest possible time for starting laying is after the screed is walkable, generally after ≥ 3 to 8 days. The screed must have reached at least 70% of its final strength (in normal cases, after 7 days). Perform grouting with hydraulically hardening grout (e.g. CRISTALLFUGE-PLUS).

UNIFIX[®]-S3

Relevant regulations


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 Data sheets of the Zentralverband Deutsches Baugewerbe e.V. (German construction Association) in the latest version.

Observe applicable safety data sheet!

GISCODE: ZP1 (Komponente A), D1 (Komponente B)

Explanations

Conformity / Declaration / Verification

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 · D-32760 Detmold (Germany) 18 2 04330	
EN 12004 UNIFIX-S3 Normal hardening cement-based mortar for tiling and board-laying work in interior and exterior areas	
C2	
Reaction to fire:	Class E
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

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