

CRISTALLIT®-FLEX-max

Natural stone medium bed mortar S1



Material number	Contents	Unit of quantity	Packaging	Colour
205427001	20	KG	Bag	White

Product features

- C2 FE S1 in accordance with DIN EN 12004
- White
- High slump resistance
- Up 30 mm layer thickness
- Rapid setting

Advantages

- no sagging of heavy boards - even with a high layer thickness
- rapid construction progress

Areas of application

- for laying insensitive, discolouration and deformation-sensitive natural stone in the thin and medium bed method
- for laying artificial stone, window sills, natural stone stairs and ceramic tiles in the thin and medium bed method
- for heated and unheated substrates
- For interior and exterior use

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Technical Data

Material properties

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

Mixing

Maturing time	approx. 3 minutes
Water addition	approx. 6 l

Application

Substrate temperature	from 5 °C to 25 °C
Pot life	approx. 60 minutes
Foot traffic after	approx. 3 hours
Consumption with 8mm notched trowel	2.1 kg/m ²
Consumption with 10mm notched trowel	2.8 kg/m ²
Consumption with 20mm notched trowel	4.9 kg/m ²
Consumption with 20mm trowel with semicircular teeth	6.5 kg/m ²
Application temperature	from 5 °C to 25 °C
Available after	approx. 3 hours
Hardening time / full resilience	approx. 7 days
Open time	approx. 20 minutes

Application technology

Aids/tools

- Stirrer
- Trowel
- Toothed trowel

Suitable substrate

- Cement screed (CT)
- Calcium sulphate screeds (CA, CAF)
- Mastic asphalt screeds (AS)
- Magnesia screeds (MA)
- Concrete
- Dry screeds
- Raised floors
- Floor levelling compounds
- Tile bearing elements
- Decoupling mats & boards
- Bonded waterproofing
- Firmly adhering tiled finishes
- Cement plaster
- Lime-cement plaster
- Gypsum plaster
- Light plaster
- Gypsum boards
- Gypsum fibre boards
- Cement and fibre cement boards

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Substrate preparation

Requirement for substrate

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

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.
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. Always clean the mixing container, as setting CRISTALLIT[®]-FLEX-max acts as a catalyst.
5. 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. 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 07.

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Notes


- Not suitable for areas submerged under water!
- Protect surfaces that are not to be treated from the effects of CRISTALLIT®-FLEX-max!
- When used in exterior areas, be sure to use of suitable Schomburg sealing materials.
- When using in rooms exposed to moisture penetration, note the required use of Schomburg sealing materials.
- 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!
- When laying large formats larger than 50 × 50 cm, use a scratch coat on the back or lay using the floating-buttering method.
- Do not add water or new mortar to existing CRISTALLIT®-FLEX-max mortar that has already set in order to make it workable again. (Risk of inadequate strength development)
- In the case of magnesia screeds as a substrate, these must be protected in advance by using ASODUR®-GBM. Danger of magnesite pouring.
- When laying covering materials larger than 60cm × 60cm on calcium sulphate screeds, we recommend using ASODUR®-GBM.

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 23 2 05427	
EN 12004 CRISTALLIT-FLEX-max Cement-based mortar for increased demands in interior and exterior areas for tiling and board-laying work	
C2 F	
Reaction to fire:	Class E
Bond strength as	
Tensile adhesion strength after dry storage: $\geq 1 \text{ N/mm}^2$	
Durability as	
Tensile adhesion strength after water storage: $\geq 1 \text{ N/mm}^2$	
Tensile adhesion strength after warm storage: $\geq 1 \text{ N/mm}^2$	
Tensile adhesion strength after alternating frost/thaw storage: $\geq 1 \text{ N/mm}^2$	

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