

SOLOCRET®-50

Non slump levelling compound up to 50 mm, rapid setting



Material number	Contents	Unit of quantity	Packaging	Colour
205440001	25	KG	Bag	Grey

Product features

- CT-C25-F4 in accordance with DIN EN 13813
- Non slump
- Layer thicknesses von 2 mm bis 50 mm
- Rapid setting
- Low stress
- Universally applicable

Advantages

- Fine surface
- rapid construction progress

Areas of application

- To compensate for and level uneven walls and substrates
- To establish angled trowelling
- Can be used for damp and wet areas
- For interior and exterior use

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Existing test certificates

Reaction to fire

Technical Data

Material properties

Product components	1 component system
Base material	Special cement Cementitious aggregates Additive
Consistency	Powdered
Bulk density of fresh mortar	approx. 1.8 kg/dm ³
Flexural strength (28 days, DIN EN 13813)	≥ 4 N/mm ²
Compressive strength (28 days, DIN EN 13813)	≥ 25 N/mm ²
Classification of the reaction to fire in accordance with DIN EN 13501-1	A1

Mixing

Mixing time	approx. 3 - 5 minutes
Maturing time	approx. 3 minutes
Water addition	from 4 l to 4.5 l

Application

Substrate temperature	from 5 °C to 25 °C
Pot life	approx. 30 minutes
Consumption pro m ² and mm layer thickness	approx. 1.5 kg/m ²
Foot traffic after	approx. 3 hours
Ready for covering with tiles	approx. 3 hours
Application temperature	from 5 °C to 25 °C
Hardening time / full resilience	approx. 28 hours

Application technology

Aids/tools

- Flat trowel
- Stirrer
- Clean mixing bucket

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. Dry
2. Load-bearing
3. Firm
4. Grippy
5. Free of cracks
6. Free of adhesion inhibiting substances

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Measures for substrate preparation

The substrate must correspond to the payloads associated with the load-bearing capacities in accordance with DIN EN1991-1-1.

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. The mixing time is ca. 3 - 5 minutes.
3. After a settling period of ca. 3 minutes, thoroughly homogenise the compound again.
4. Do not mix more material than can be applied during the pot life.

Application

1. Apply SOLOCRET[®]-50 to the primed substrate, and use a suitable tool to distribute it evenly during the pot life.
2. SOLOCRET[®]-50 can be applied in a single application step up to a layer thickness of 50 mm. Up to a layer thickness of 100 mm in damaged areas.
3. Smooth after around 30 minutes if required.
4. A grid float can be used for grid floating after around 60-80 minutes (depending on the substrate, ambient conditions and layer thickness).
5. Any potential skimming using SOLOCRET[®]-50 should be carried out when the first layer is firm but is still somewhat damp, as can be seen by the darker colour. Do not exceed the maximum layer thickness mm!

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 AVV 17 01 01.

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Notes

- Do not use in the pressure water range!
- 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.
- For calcium sulphate screeds, the carbide method moisture content may not exceed 0.5% if there is no floor heating system, or 0.3% if there is a floor heating system at the time of levelling with SOLOCRET®-50. Prime the calcium sulphate screed with ASODUR®-GBM and scatter quartz sand (Ø 0.5–1.0mm). Then remove the unbound quartz sand thoroughly and then level with SOLOCRET®-50 to a layer thickness of von 2 mm bis 50 mm. The following moisture migration should be avoided. We recommend SOLOPLAN®-30-CA for levelling calcium sulphate binded substrates, e.g. calcium sulphate screeds.
- Border, field, building separation and movement joints should be carried over to or installed at the designated location; suitable means such as RD-SK50 edging strips should be used to detach them! Crack control joints should be cut in after the SOLOCRET®-50 has hardened to the level of up to a third of the introduced layer thickness!
- Do not add water or new mortar to existing SOLOCRET®-50 mortar that has already set in order to make it workable again. (Risk of inadequate strength development)
- Protect surfaces that are not to be treated from the effects of SOLOCRET®-50!


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.

Observe applicable safety data sheet!

GISCODE: ZP1

Annotations

Conformity / Declaration / Verification

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold (Germany) 13 2 05440	
EN 13813 SOLOCRET-50 Cement-based screed mortar for application inside buildings CT-C25-F4	
Reaction to fire	class A1/A1 _{fl}
Release of corrosive substances	CT
Compressive strength	C25
Flexural strength	F4

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