



Technical Data Sheet

SOLOCRET-50

Art.-No. 2 05440

Anti-sag wall and floor levelling compound – rapid hardening

CE	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold 13 2 05440	
EN 13813 SOLOCRET-50 Cement screeding mortar for use in buildings CT-C25-F4	
Reaction to fire	Class A1/A1q
Release of corrosive substances	CT
Compressive strength	C25
Flexural strength	F4



Storage: dry, min. 6 months in the original unopened packaging. Use opened packaging promptly.

* Values are valid at +23° C and 50% relative humidity

Substrate preparation:

The mineral-based substrate must be load-bearing, solid, have a good key and be free from materials acting as separating layers. The load-bearing capacity of the substrate must be appropriate to take loads in accordance with DIN 1055. Separating layers, laitance and similar must be mechanically removed by suitable means e.g. surface abrasive blasting or scabbling. Ensure there is no moisture pressure from the negative side. Shrinkage processes must be largely at an end. Remove hollow edges back to a sound core. Pre-treat substrates by priming with ASO-Unigrund-GE. Suitable floor substrates are concrete in accordance with DIN 1045, heated and unheated cement-based screeds in accordance with DIN 18560 and rapid setting cement-based screeds (e.g. ASO-EZ6-Plus). Before applying SOLOCRET-50, the readiness of a floor substrate to receive finishes is to be determined by moisture measurements with a carbide hygrometer. The CM moisture content may not exceed:

- Cement-based screeds (CT) ≤ 2.0 CM% for screeds on insulation or separating layers
- Calcium sulphate screeds (CA) without underfloor heating ≤ 0.5 CM%
- Calcium sulphate screeds (CA) with underfloor heating ≤ 0.3 CM%

The CM measurements are to be carried out following the current FBH-AD work instructions taken from the technical information "coordination of cut out points in heated floor constructions".

Product preparation:

1. Prime the substrate with ASO-Unigrund-GE. Cement-based substrates can also be pre-wetted until matt damp.
2. Mix SOLOCRET-50 with clean water in a clean mixing bucket until homogenous.
 Mixing ratio:
 Approx. 4 – 4.5 litres water : 25 kg SOLOCRET-50

Properties:

- For interior and exterior use
- Polymer modified
- Low shrinkage
- Rapid hardening
- For walls, ceilings and floors
- For thicknesses from 2 to 50 mm

Areas of application:

For levelling and smoothing uneven mineral-based walls, ceilings and floor areas that are to be waterproofed or tiled. SOLOCRET-50 is suitable for exterior and wet duty areas when an appropriate SCHOMBURG bonded waterproof membrane is installed.

Technical Data:

Basis:	Cement, aggregate, high quality additives
Colour:	Grey
Bulk density:	approx. 1.2 kg/dm ³
Pot life:	approx. 30 mins ¹⁾
Overcoat:	after approx. 3 – 4 hrs ¹⁾
Flexural and compressive strength:	approx. 4.0/25 N/mm ² after 28 days
Application/substrate temperature:	+5° C to +25° C
Cleaning tools:	in the fresh state with water
Consumption:	approx. 1.5 kg/m ² at 1 mm thickness
Packaging:	25 kg bag

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Add the water to a clean mixing bucket and mechanically mix in the dry powder whilst stirring with a drill and paddle (approx. 300 – 700 rpm) until a homogenous, thixotropic, smooth and paste-like smoothing compound is achieved. The mixing time is approx. 3 – 5 minutes. Allow to stand for approx. 3 minutes, then re-mix. SOLOCRET-50 must be used within 30 minutes at +20° C.

3. Produce a scratch coat and then trowel apply SOLOCRET-50 and evenly spread with a suitable tool (plasterer's darby) within the working time. SOLOCRET-50 can be applied up to 50 mm thick in one coat, with isolated voids up to a thickness of 100 mm. If desired it can be smoothed off after 30 minutes.
4. After approx. 60 – 80 minutes. Dependent on the substrate, ambient conditions and thickness, the material can be smoothed with a grid float in order to remove surface irregularities and to leave a rough finish, which ensures a good bond for subsequently applied tile adhesives.
5. Where it is necessary to apply another coat of SOLOCRET-50, this is best carried out when the first coat is hard but still damp as recognised by the darker colour. Do not exceed a maximum thickness of 50 mm. The air, material and substrate temperature may not drop below +5° C during application and within the next 24 hours.

Important advice:

- Do not use in areas with water under pressure!
- Instead of ASO-Unigrund-GE, ASO-Unigrund-K (diluted 1:3 to 1:4 with water) or ASO-Unigrund-S (neat up to 1:1 dependent on the substrate) can be used.
- Clean, abrade and prime old, well bonded ceramic finishes with ASO-Unigrund-S and allow to harden. Subsequently trowel over with a maximum of 20 mm SOLOCRET-50.
- Direct contact between cement-based tile mortars and magnesite screeds leads to the destruction of the magnesite screed through a chemical reaction. Moisture penetration from the rear must be eliminated with appropriate measures. Mechanically roughen the magnesite screed and prime with the epoxy

resin ASODUR-V360W (approx. 250 g/m²) with a maximum of 5% water as necessary. After waiting from 12 - 24 hours at +20° C, apply a second coat of ASODUR-V360W (approx. 300 - 350 g/m²). Blind the fresh second coat with 0.2 - 0.7 mm quartz sand. After waiting for a further 12 - 16 hours continue with the application of SOLOCRET-50 to a maximum 50 mm thickness.

- With calcium sulphate based screeds, at the time of levelling with SOLOCRET-50 the CM moisture content must not exceed 0.5% without underfloor heating and 0.3% with underfloor heating. Thoroughly prime with ASODUR-V360W and subsequently broadcast with 0.5 - 1.0 mm quartz sand. After waiting for a further 12 - 16 hours continue with the application of SOLOCRET-50 to a maximum 50 mm thickness. Prevent further moisture ingress.
- Perimeter, bay, structural and general movement joints are to be brought through or inserted as designed. Stop with a suitable material e.g. edge strips.
- Very porous substrates result in greater material consumption.
- High temperatures accelerate, lower temperatures slow down the setting process.
- Do not attempt to re-life SOLOCRET-50 that has already started to stiffen, by adding more water or fresh mortar as there is a risk of inadequate strength development.
- Protect areas not being treated with SOLOCRET-50 from its effects.
- Observe a valid EU Health & Safety data sheet.
- Follow the relevant current regulations. For e.g. DIN 18157, DIN 18352, DIN 18560, DIN EN 13813, DIN EN 13318, DIN 1055 The BEB technical sheets issued by the federal association for screeds and finishes. The technical information "Coordination of cut out points with heated floor constructions" The ZDB technical sheets issued by the Professional Association of the German tile industry:
[*1] "Bonded waterproof membranes"
[*2] "Finishes on calcium sulfate screeds"
[*3] "Movement joints in tile and slab finishes"
[*4] "Heavy duty ceramic tiled finishes"

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[*5] "Ceramic tiles and slabs, natural and concrete slabs on cement-based floor constructions on insulation"

[*6] "Ceramic tiles and slabs, natural and concrete slabs on heated cement-based floor constructions"

[*7] "Exterior tiling"

TKB data sheet:

"Technical specifications and application of cement-based floor smoothing compounds".

Please observe a valid EU health & safety data sheet.

GISCODE: ZP1