



Technical Data Sheet

SOLOCRET-15

Art.-No. 2 05437

Sag resistant wall and floor levelling compound

Description:

SOLOCRET-15 is a polymer modified, cement based levelling mortar used to create even substrates for subsequent applications of waterproofing or tiling products.

Primary Uses:

For interior and exterior applications to level and smooth uneven mineral-based wall, ceiling and floor areas that are to be waterproofed or clad with tiles. Also for use beneath waterproofing in swimming pool tanks and exterior areas.

Advantages:

- Low tension
- Rapid setting
- For walls, ceilings and floors
- For thicknesses from 2 to 15 mm

Typical Properties:

Basis:	cement, aggregates, high quality additives
Colour:	grey
Bulk density:	approx. 1.4 kg/dm ³
Pot life:	minimum 30 minutes *)
Overcoat after:	approx. 4 hours *)
Flexural and compressive strength:	4.0/25 N/mm ² after 28 days *)
Substrate temperature:	+5° C to +25° C

*) Values refer to +23° C and 50% relative humidity

Substrate preparation:

The mineral-based substrate must be load-bearing, solid, have a good grip and be free from materials that act as separating layers. The substrate must be load-bearing to loads in accordance with DIN 1055. Remove separating layers, laitance and similar by suitable measures e.g. blasting or scabbling. Shrinkage

processes should be largely concluded. Remove loose edges back to a sound base. Prime very porous substrates beforehand with ASO-Unigrund. In floor areas, suitable 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). SOLOCRET-15 is also suitable for exterior use and wet duty areas providing a suitable SCHOMBURG bonded waterproofing compound is installed. Not suitable as a wearing surface without additional appropriate finishes. To determine a floor substrate's readiness to receive finishes carry out moisture measurements before applying SOLOCRET-15 using a carbide hygrometer (CM device). The CM moisture readings may not exceed:

- $CT \leq 2.0$ CM % for screeds on insulation or separating layers
- CA without underfloor heating ≤ 0.5 CM %
- CA with underfloor heating ≤ 0.3 CM %

The CM measurements are to be carried out in accordance with current work instructions of the FBH-AD from the technical literature "Coordination of cut-out areas for heated floor constructions".

Mixing:

Mixing ratio:

4.75 – 5.0 litres water : 25 kg SOLOCRET-15

Mix SOLOCRET-15 with clean water in a clean mixing bucket until homogenous. Add the water to a clean mixing bucket and mechanically stir in the dry powder with a stirrer (approx. 300 – 700 rpm) until a homogenous, slump free smoothing paste is obtained. The mixing time is approx. 3 – 5 minutes. SOLOCRET-15 can be used for a minimum of 30 minutes at +20° C.

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Product application:

1. Prime the substrate with ASO-Unigrund.
2. Skim/spread out the properly mixed SOLOCRET-15 onto the primed substrate and distribute evenly with a suitable tool (lath) within the pot life. SOLOCRET-15 can be applied over the area up to 15 mm in one application.
3. After approx. 45 – 80 minutes dependent on the substrate, ambient temperature and thickness, rub with a damp open-pored sponge or felt-board and subsequently smooth with a steel float. Possible further smoothing is best carried out when the first layer has hardened but is still recognisably damp from the dark colour. Do not exceed the maximum thickness of 15 mm.

Curing & Protection:

Protect set SOLOCRET-15 from drying out too quickly (e.g. by repeated misting with water or covering) from high room temperatures, direct sunlight and drafts. The air, product and substrate temperature must not drop below +5°C during application and for the week afterwards.

Cleaning of Tools:

With water while still in the fresh state.

Estimating & Supply:

Consumption:

approx. 1.5 kg/m² at 1 mm thickness

Packaging:

6 kg bags and 25 kg sacks with PE liner

Storage & Shelf Life:

Minimum 6 months when stored cool and dry in the original unopened packaging. Use opened packaging promptly.

Advice:

- When applying thin coats rapid water loss (burning) can be counteracted by adding ASOPLAST-MZ. Mix ASOPLAST-MZ 1:5 with clean water and mix with SOLOCRET-15.

- Instead of using ASO-Unigrund-GE, ASO-Unigrund-K (diluted 1:3 to 1:4 with water) can also be used.
 - Clean existing well adhered ceramic finishes, abrade, prime with ASODUR-SG2 and broadcast with 0.5 – 1.0 mm quartz sand to excess. Vacuum after cured. Subsequently smooth with SOLOCRET-15.
 - Direct contact between cementitious mortars and magnesium screeds leads to destruction of the magnesium screed through a chemical reaction. Moisture penetrating out of the substrate from the rear must be excluded by appropriate measures. Mechanically roughen the magnesite substrate and prime with epoxy resin ASODUR-D2 (approx. 250 g/m²) with a maximum addition of 5% water. After a waiting time of approx. 12 to 24 hours at +20° C, apply a second coat of ASODUR-D2 (approx. 300 – 350g/m²). Broadcast 0.2 – 0.7 mm quartz sand to excess into the wet second coat. After a further waiting time of approx. 12 – 16 hours trowel the SOLOCRET-15 up a maximum thickness of 15 mm.
 - With calcium sulphate screeds at the time of levelling carried out with SOLOCRET-15 the moisture content measured with a carbide hygrometer may not exceed 0.5% without underfloor heating or 0.3% with underfloor heating. Thoroughly prime with multi-primer MG-17 and allow to completely dry. After a further waiting time of 12 – 16 hours apply SOLOCRET-15 up to a maximum thickness of 10 mm. Exclude subsequent moisture presence.
 - Perimeter, bay, structural and movement joints should be brought through / inserted in the designated position and instated with suitable materials e.g. edge strips. Crack control joints should be cut to a third of the applied depth once the SOLOCRET-15 has hardened.
 - An open textured surface causes greater material consumption.
 - Higher temperatures accelerate and lower temperatures slow down the setting process.
 - Do not re-life SOLOCRET-15 that has started to stiffen by adding water or fresh mortar. There is a risk of inadequate strength development.
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- Protect areas not to be treated from exposure to SOLOCRET-15.
- Observe the appropriate current regulations. E.g.
 - DIN 18157
 - DIN 18352
 - DIN 18560
 - DIN EN 13813
 - DIN EN 13318
 - DIN 1055The BEB technical sheets distributed by the "Bundesverband Estrich und Belag e.V."
The technical information "Coordination of cut-out areas for heated floor construction".
The ZDB (German tile association) technical sheets distributed by the professional German tile association:
 - 1) "Advice for the installation of combined waterproofing with tile and slab cladding and finishes for interior and exterior areas".
 - 2) "Finishes on calcium sulphate screeds".
 - 3) "Movement joints in tile and slab cladding and finishes".
 - 4) "Mechanical heavy duty ceramic floor coverings"
 - 5) "Ceramic tiles and slabs, natural stone and concrete slabs on cement-based floor constructions on insulation".
 - 6) "Ceramic tiles and slabs, natural stone and concrete slabs on heated cement-based floor constructions".
 - 7) "Exterior finishes"
 - 8) "Swimming pool construction"TKB (Technical committee for construction adhesives) technical sheet: "Technical description and application of cement-based floor smoothing compounds"

Please observe a valid EU health and safety data sheet.

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