

AFE 200

Calcium sulphate free-flowing screed

quick-mix
A trademark of **sievert**



Calcium sulphate free-flowing screed for use in buildings

CA-C25-F5 acc. EN 13813 / DIN 18560

- high-performance surface possible
- practically self-levelling
- even surface



APPLICATIONS

- screed mortar for producing screed surfaces on separating layers, insulating layers, screed on underfloor heating and hollow-floor systems
- particularly well suited for underfloor heating systems
- can be used in areas with low or moderate water influence in the water action classes W0-I or W1-I according to DIN 18534
- not suitable for commercial wet rooms or garages
- for interior use

PROPERTIES

- can be walked on after approx. 24 hours
- can take loads after approx. 3 days
- high compressive and flexural strengths
- no "cupping", no depressions at the edges
- good drying out properties

COMPOSITION

- Calcium sulphate
- finely fractionated, crushed limestone sand
- additives for regulating and improving workability and product properties

SUBSTRATE

- Properties/tests**
- The building requirements and the flooring structure must meet the specifications of DIN 18560-2 and DIN 18560-4 and be carried out accordingly.
 - The subsurface must be dry, load-bearing, clean, frost-free and suitable for the application of mortar.

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PROCESSING

Temperature	<ul style="list-style-type: none">■ Do not use or allow to dry and harden in air, material or substrate temperatures of less than +5°C, in the case of expected night time frost or at temperatures of over +25°C, in direct sunlight, extremely heated substrates and/or in strong wind.
Mixing / Preparation / Processing	<ul style="list-style-type: none">■ Mix product with clean tap water using the quadro-mat silo mixing pump and pump onto the prepared area.■ For an ideal working consistency, a slump flow of approx. 39 - 41 cm is to be set, determined using a 1.3-litre consistency checking can.■ Bagged products can alternatively also be processed with standard plastering machines or mixing pumps. In this case, the recommendations of the respective machine manufacturer must be observed.■ When interrupting work for longer periods, clean the machinery parts and mortar hoses.■ When mixing manually, first place the quantity of water specified in the technical data in a clean container and then sprinkle in dry mortar. Use clean tap water.■ use a suitable agitator to mix the material until smooth and free of lumps. Leave to rest for a moment and then mix again, adding more water, if required, to achieve the right consistency for applying.■ Do not mix with other products and/or other substances.
Processing	<ul style="list-style-type: none">■ Distribute mixed fresh mortar evenly on the prepared substrate.■ De-aerate and level thoroughly with a screeding rod.
Processing / Working time	<ul style="list-style-type: none">■ approx. 60 minutes■ The stated times apply for a temperature of +20°C and relative humidity of 65%.■ The processing time will be extended at low temperatures and/or high air humidity and shortened at high temperatures and/or low air humidity.■ Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.
Drying / Hardening	<ul style="list-style-type: none">■ The screed surface can be walked on after approx. 24 hours and partly loaded after approx. 3 days.■ Good ventilation of the spaces is to be ensured once the screed is ready to walk on.
Subsequent coating / Suitability for coating	<ul style="list-style-type: none">■ The screed is ready to be covered when the maximum residual moisture, determined by the CM method, results in the following measurements:<ul style="list-style-type: none">■ ≤ 0.5 CM % for calcium sulphate screed heated and unheated■ Further instructions for performing a CM measurement can be found in DIN 18560-1, Screeds in construction.■ For subsequent floor covering work, the processing regulations and instructions of the floor covering manufacturer must be observed.
Cleaning the tools	<ul style="list-style-type: none">■ Clean all tools and equipment with water immediately after use.
Notes	<ul style="list-style-type: none">■ The thickness of the screed must be matched to the relevant screed type and the relevant purpose. The specifications of DIN 18560 apply.■ In case of heated screeds, the function heating can be started after 7 days according to DIN EN 1264-4.

PACKAGING

- 30 kg/sack
- loose in silo

STORAGE

- Store sacks appropriately and in dry conditions on pallets.
- If stored in its original packaging, the product will keep for at least 3 months from the date of manufacture.

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QUANTITY REQUIRED / YIELD

- consumption: approx. 19 kg/m² per 10 cm layer thickness
- yield: app. 16 l fresh mortar per 30 kg/sack
- yield: app. 530 l fresh mortar per t

TECHNICAL DATA

Product type	CA-C25-F5 according to DIN EN 13813 und DIN 18560
Fire behaviour	A1 _{fl} (non-flammable) in accordance with EN 13501
Grain	0 – 4 mm
Set mortar bulk density	approx. 2.1 kg/dm ³
Compressive strength	≥ 25 N/mm ²
Thermal expansion	approx. 0.010 mm/mK
Elongation and shrinkage	< 0.2 mm/m

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

SAFETY AND DISPOSAL INSTRUCTIONS

Safety	<ul style="list-style-type: none">■ This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes.■ Follow further instructions in the safety data sheet.
Disposal	<ul style="list-style-type: none">■ Dispose of the material in accordance with the official regulations.■ Completely empty and recycle the packaging.■ Hardened product remains can be disposed of according to the Waste Catalogue Ordinance under Waste Code 17 08 02 (gypsum-based construction materials except those falling under 17 08 01).

GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. Since natural raw materials are used, the values and properties described may vary somewhat. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.