

Technical data sheet.

casufloor DE - Calcium sulphate flowing screed

Product Description

casufloor DE is a factory-mixed, laboratory-monitored flowing screed based on calcium sulphate for interior residential and office construction. casufloor DE is composed of calcium sulphate binders, mineral aggregates and additives to improve the processing properties. Due to its excellent thermal conductivity, this product is ideally suited for thin-layer underfloor heating systems and is particularly approved for the Roth Quick-Energy Tacker System with a pipe covering of at least 20 mm - otherwise for layer thicknesses of 10 - 30 mm as bonded screed. Not suitable for wet rooms.

> Technical data and characteristics

Standardisation	Calcium sulphate flowing screed CA-C30-F7 as per EN 13813
Compressive strength	≥ 30.0 N/mm ²
Flexural strength	≥ 7.0 N/mm ²
E-modulus	approx. 18 kN/mm ²
Yield as per standard	approx. 550 l/t approx. 25 m ² /t with 20 mm application thickness approx. 14 l wet compound per 25 kg bag
Consumption	approx. 18 kg/m ² with an application thickness of 1 cm approx. 62 kg/m ² with 35 mm installation thickness (Roth QE System)
Water requirement	approx. 4.0– 4.5 l per 25 kg bag
Thermal conductivity (table value)	approx. λ _R =1.40 W/mK
Grain size	0– 2 mm
Fire performance	Construction material class A1, non-flammable

> Logistics and safety instructions

Form of delivery	bag
Storage	casufloor DE in bags can be stored for 6 months from the production date if stored dry and protected. Can be stored for 3 months in site silos.
Safety instructions	See safety data sheet



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CASEA-114 620
EN 13813: 2002, CA-C30-F7
Dry screed mortar for indoor floor constructions

Fire performance	A1
Release of corrosive substances	CA
pH value	> 7
Water vapour permeability	NPD*
Compressive strength	C 30
Flexural strength	F 7
Impact sound insulation	NPD*
Sound absorption	NPD*

*NPD (no performance determined) = Characteristics not determined since not relevant

Information

This product data sheet contains advice to the best of our knowledge and replaces all previous product data sheets. Its content, however, is not legally binding.

Surfaces

casufloor DE is used for the production of bonded screeds on cement screeds, calcium sulphate screeds and concrete as well as for the Roth QE system. With this system, the substrate must be very carefully levelled so that the insulation boards form full-surface contact. It is essential to observe the further instructions in the technical information on the Roth QE system. When used as bonded screed, the unfinished floor must always be cleaned, concrete and mortar residues must be removed. The substrate should have a surface tensile strength of at least 1.0 N/mm², it should be dry, crack-free and load-bearing. Pre-treat cementitious or calcium sulphate-bound substrates with an adhesion primer, in the case of highly absorbent substrates apply two coats if necessary. Use specially suitable adhesion primers on magnesia screeds and mastic asphalt. In the case of rising moisture, suitable waterproofing must be provided in accordance with DIN 18195 (e.g. epoxy resin waterproofing with quartz sand sprinkling).

Processing and Processing Time

casufloor DE can be processed with all common floating screed machines. When starting up the machine, it is essential to observe the manufacturer's instructions. Care must be taken to ensure the correct consistency: The slump-flow must be set between 21 cm and 23 cm (Vicat ring Ø65/75 x 40 mm on dry film) or 25 -28 cm (Häggermann funnel on dry disc). Take care no water separation is allowed while the mortar runs. Repeated checks during pouring are recommended. Hoses should be pre-wetted and pre-lubricated, calcium sulphate binder can be used for this purpose. Immediately after the desired installation height has been reached, the screed must be both deaerated and levelled using the buffing bar or rake squeegee. casufloor DE can also be mixed by hand with an electric stirrer for small areas. The processing time is approx. 45– 60 min from mixing to levelling.

For further information,

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Important Notes

- Protect the screed from draughts during pouring and for 2 days afterwards
- Pipe covering of at least 20 mm with the Roth "Quick-Energy Tacker" system
- Use edge insulation strips with at least 10 mm
- Observe joint arrangement and include movement joints
- Do not admix foreign material
- Do not process at a subsurface temperature or ambient temperature below +5 °C or above +35 °C, respectively.
- Observe the generally accepted codes of practice during processing.
- Ensure sealing in areas where there is a risk of splashing water
- Information for disposal: GISCODE: CP 1, water hazards class: 1; German regulation regarding safety at work: not applicable