

CASEA Casufloor DE – Alpha Fine Flow

CASEA Casufloor DE is a Calcium Sulphate based, polymer-modified, levelling screed compound, ideal for renovations or levelling cementitious, calcium sulphate and concrete based floors. The composition of the material makes it ideal to use over heated floor systems, layer thickness 10 to 30 mm. The material complies with EN13813:2002 and is CE marked. Designation: CA-C30-F7.

- Smooth Laitance Free Finish
- Pumpable – High Flowability
- Early Trafficking
- Very Low Shrinkage
- Reduced Drying Times
- CE Marked
- EN 13813: 2002
- 25kg bag - 42 bags per pallet

Field Of Application

Casufloor DE is used in renovation of apartments, offices and public buildings as a levelling material and Roth's QE Underfloor Heating System. The screed is for internal use and can be covered with all common floor coverings. If a cement based adhesive or smoothing compound is required, the surface of the screed must be sealed first using an appropriate acrylic primer/sealer. It is not suitable for wetrooms.

Working Instructions

Light ventilation in the work area is necessary, however windows and openings must be closed sufficiently to avoid draughts, particularly during and for 2 days after application. Indoor and floor temperature should exceed +10C during and after application and for one week after that. Expansion joints in a bonded application should be followed through.

Substrate

Casufloor DE is designed for use as a bonded levelling screed on cementitious, calcium sulphate and concrete based floors, as a floating screed over in combination with Roth's QE Underfloor Heating System.

Preparation and Priming

The substrate should be clean, dry, free of dust, grease and other impurities that might prevent adhesion. If it is a large area, the surface should be treated by mechanical preparation by grinding or shot blasting. The surface strength of the substrate has to be at least 1.0 N/mm².

Prepare the substrate using Floor Primer as directed. Dry and very porous substrates must be treated twice. If Casufloor DE is to be applied on plastic sheeting or as a floating floor, a gap of minimum 8mm should be formed around the perimeter (walls, columns, etc.). Appropriate primers and sealers are also available from SMET.

Mixing

Casufloor DE should be mixed by mechanical means. Mixing time, if using a hand held mixer, is 2 minutes. Depending on the intended use, mix 4 – 4.5 L of clean water per 25kg bag. Do not mix more material than can be laid in 40 minutes. A suitable mixing pump for example, G4/5, Duomix or MP25 should be used for large areas. The best temperature for mixing is between 10-20°C. Do not use at temperatures below +5°C or above +35°C of the substrate or the ambient temperature. Do not mix with other materials.

Application

Pumping is carried out in sections so that a wet edge is maintained. A wide steel tampering bar, spiked roller or notched trowel is used to assist the levelling process. When applied bonded, the minimum thickness of Casufloor DE should be 8mm. Die-cut steel sheet underfloor heating systems require a minimum cover of 10mm over the underfloor heating pipe. The processing time is approx. 45-60 minutes from mixing to levelling. Ensure area is sealed where there is a risk of spray water.

Storage

6 months under dry conditions.

Disposal

13.1 Waste treatment methods: Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Uncleaned packaging: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agents: Water, if necessary together with cleansing agents.

Safety

Caution. This product contains cement, which becomes alkaline when wet and may cause skin irritation. Use goggles, gloves and protecting cream. Avoid prolonged contact with skin. Avoid inhaling the dust. Wash affected area with warm water and soap. Wash eyes thoroughly and consult a physician. Do not ingest. See Health and Safety Data Sheet for further information.

Hazard Statements

H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.


Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/physician.

Technical Information

Screed Specification CA-C30-F7 EN 13813: 2002	
Maximum Thickness	30mm
Minimum Thickness	Bonded: 8mm; Pipe die-cut steel sheets underfloor heating systems: 10mm
Use	Internal use only
Grain size	0 – 2 mm
Compressive Strength (28 days)	> 30 N/mm²
Flexural Strength (28 days)	> 7.0 N/mm²
Flow Rate	250-280mm
Tensile Adhesion	> 1.5 N/mm²
Shrinkage (28 days)	< 0.1 %
Modulus of Elasticity	approx. 18 kN/mm²
Hardening Time (Light foot traffic)	24 hours
Hardening Time (final covering)	1 day to 2 weeks depending on thickness and site conditions
Recommend water content	16 - 19 %
Thermal Conductivity	λR=1.40 W/mK
Yield	1.8 kg/mm/m²
Water Requirement	approx. 4 – 4.5 L per 25 kg bag
Consumption	approx. 18 kg/m² per 1 cm applied thickness approx. 62 kg/m² per 3.5 cm applied thickness. (Roth QE-system)

	CASEA GmbH Pontelstraße 3 99755 Ellrich Germany
02 CASEA - 114 620 EN 13813: 2002, CA-C30-F7 Calcium Sulphate screed material for use internally in buildings	
Reaction to fire	A1
pH value	> 7
Compressive strength	C 30
Flexural strength	F 7
Release of corrosive substances	CA

CASEA
 WORKING FOR THE FUTURE



Smet Building Products Limited
 28 Castleowen | Newry | Co. Down | BT34 1GF | UK
 T: +44 (0)28 3082 5970 F: +44 (0)28 3025 2777
 E: info@smetbuildingproducts.com