

## 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. Normally used for thickness 10 to 30 mm bonded, however may be used up to 60mm application thickness. The material complies with EN 13813: 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

### Field Of Application

Casufloor DE is used in renovation of apartments, offices and public buildings as a levelling material and is suited for use with Roth's QE Underfloor Heating System and Lewis® Deck Dovetail Sheeting 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 +10°C 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, and as a floating screed in combination with Roth's QE Underfloor Heating System and Lewis® Deck Dovetail Sheeting 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/mm<sup>2</sup>. 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 ideal temperature for mixing is between 10-20°C. Do not use if air or substrate temperatures fall below +5°C or above +35°C. Do not mix with other materials. It is important to ensure the right consistency: the spread diameter must be between 21 cm and 23 cm (Vicat ring Ø65/75 x 40 mm on dry film) or 25 cm and 28 cm (Hägermann cone).

### 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, protected 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: Contains cement, portland, chemicals. See CASEA Health and Safety Data Sheet for further detailed information. All standard precautions for the handling of construction materials/chemicals must be taken.

Classification according to Regulation (EC) No 1272/2008: **GHS05, GHS07**. Signal word: **Danger**.

#### Hazard Statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

#### Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.

P103 Read label before use.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

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/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

#### Technical Information

Maximum Thickness	60mm
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/mm <sup>2</sup>
Flexural Strength (28 days)	> 7.0 N/mm <sup>2</sup>
Flow Rate	250 - 280 mm (Hägermann cone)
Modulus of Elasticity	approx. 18 kN/mm <sup>2</sup>
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	$\lambda_R = 1.40$ W/mK
Yield	1.8 kg/mm/m <sup>2</sup>
Water Requirement	approx. 4 – 4.5 l per 25 kg bag
Consumption	approx. 18 kg/m <sup>2</sup> per 1 cm applied thickness approx. 62 kg/m <sup>2</sup> per 3.5 cm applied thickness. (Roth QE-system)
Packaging	25kg bags

	<p>CASEA GmbH Pontelstraße 3 99755 Ellrich Germany</p>
	<p>02 CASEA - 114 620 EN 13813: 2002, CA-C30-F7 Calcium Sulphate screed material for use internally in buildings</p>
Reaction to fire	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

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