CASEA Casufloor FS – Alpha Levelling Compound

CASEA Casufloor FS is a calcium sulphate based, polymer modified, levelling screed compound ideal for renovations or levelling cementitious, calcium sulphate and concrete based floors in domestic and commercial internal use. The composition of the material makes it ideal to use over heated floor systems with a layer thickness 2 to 10 mm. The material complies with EN13813: 2002 and is CE marked. Designation: CA-C30-F7.

- Smooth Laitance Free Finish
- Next day application onto CA Base Screeds
- 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 FS is used in renovation of apartments, offices and public buildings as a levelling material. The screed is for internal use and must be covered with a common floor covering. 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, direct sunlight and heat during application. Ventilate rooms well once it is possible to walk on the screed. 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. Ensure area is sealed where there is a risk of spray water.

Substrate

Casufloor FS is designed for use as a bonded levelling screed on cementitious, calcium sulphate and concrete based floors. It can also be used on underlying surfaces made of wood.

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. Wooden bases should be fixed to prevent moving by additional screwing. Prepare the substrate using Floor Primer as directed. Dry and very porous substrates must be treated twice. If the base has rising damp it should be sealed. Appropiate primers and sealers are also available from SMET.

Mixing

Casufloor FS should be mixed by mechanical means. Mixing time, if using a hand held mixer, is 2 minutes. Depending on the intended use, mix 6.5 l of clean water per 25kg bag. Do not mix more material than can be laid in 30 minutes. A suitable mixing pump i.e. G4/5, Duomix or MP25 should be used for large areas. It is essential to observe the manufacturer's instructions when starting up the machine. It is important to ensure the right consistency – the spread diameter should be 24 – 26 cm (Vicat ring). It is advisable to repeat the tests during the casting process. Shake the material into a clean container containing clear water, leave for 1 – 2 minutes to settle and then mix to form a lump-free, free flowing mass. The area to be treated should be adjusted to the processing times for the flowing screed. The optimal temperature for mixing is between 10-20°C. Do not use at temperatures below +5°C or above +35°C substrate or ambient temperature. Do not mix with other materials.

Application

Pumping is carried out in sections so that a wet edge is maintained. A spiked roller or notched trowel is used to assist the levelling process. When applied the minimum thickness of Casufloor FS should be 2mm. The processing time is approx. 30 minutes from mixing to smoothing/levelling. On wooden bases a minimum thickness of 5 mm and an additional reinforcement with fibres is (up to 25mm long) advised. NB: adding fibres can have an adverse effect on flow.

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

Hazard-determining components of labelling: Cement, portland, chemicals. See CASEA Health and Safety Data Sheet for further detailed information. Classification according to Regulation (EC) No 1272/2008: GHS05. GHS07. **Hazard pictograms:** GHS05. **Signal word:** Danger. Keep out of the reach of children. All standard precautions for the handling of construction materials/ chemicals must be taken.

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.

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

Screed Specification EN 13813: 2002	
Maximum Thickness	**10 mm**
Minimum Thickness	**2 mm**
Use	**Internal use only**
Compressive Strength (28 days)	**≥ 30 N/mm²**
Flexural Strength (28 days)	**≥ 7 N/mm²**
Modulus of Elasticity	**18 kN/mm²**
Water requirement	**approx 6.5 l per 25kg bag**
Flow Rate	**240 – 260 mm (Vicat Ring)**
Grain size	**0 - 0.5 mm**
Yield	**approx. 650 l/t approx. 130 m²/t at 5 mm applied thickness approx. 1.5 kg/m² at 1 mm applied thickness**
Packaging	**25kg bags**
Disposal Instructions	**GISCODE: CP 1: water hazards class: 1**

CE	**CASEA GmbH Pontelstraße 3 99755 Ellrich Germany**

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CASEA - 114 630
EN 13813: 2002, CA-C30-F7
Calcium Sulphate screed material for use internally in buildings

Reaction to fire	**A1**
Release of corrosive substances	**CA**
pH value	**> 7**
Compressive strength	**C30**
Flexural strength	**F7**

*NPD = No Performance Determined

Smet Building Products Limited
93A Belfast Rd | Newry | Co. Down | BT34 1QH
T: +44 (0)28 3026 6833 F: +44 (0)28 3026 7619
E: info@smetbuildingproducts.com