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 typical layer thickness 2 to 10 mm but can be used up to 20 mm in one application. 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

Waste treatment methods. Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. European waste catalogue 17 08 02. Uncleaned packaging: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agents: Water, if necessary together with cleansing agents.

The information, and, in particular, the recommendations relating to the application and end-use of SMET distributed products, are given in good faith based on SMET's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the manufacturer's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Safety

Classification according to Regulation (EC) No 1272/2008 GHS05 corrosion Skin Corr. 1 H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Labelling according to Regulation (EC) No 1272/2008. The product is classified and labelled according to the CLP regulation. Hazard pictograms GHS05 Signal word Danger. Hazard-determining components of labelling: Cement, portland, chemicals. Keep out of the reach of children. All standard precautions for the handling of construction materials/chemicals must be taken. See CASEA Health and Safety Data Sheet for further detailed information.

Hazard Statements

H314 Causes severe skin burns and eye damage.

Precautionary Statements

P102 Keep out of reach of children.

P260 Do not breathe dusts or mists.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Technical Information

Screed Specification CA-C30-F7 as per EN 13813	
Maximum Thickness	10 mm
Minimum Thickness	2 mm
Use	Internal use only
Compressive Strength (28 days)	≥ 30 N/mm^2
Flexural Strength (28 days)	≥ 7 N/mm^2
Modulus of Elasticity	18 kN/mm^2
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 m^2/t at 5 mm applied thickness approx. 1.5 kg/m^2 at 1 mm applied thickness
Packaging	25kg bags
Reaction to fire	Building material class A 1, not combustible
Drying Times	1 day per 1 mm thickness (At 20°C and 65% RH). Please note: If underfloor heating is present, before any floor covering is installed, the heating system should be commissioned.

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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

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