

CASEA Casufloor C30/F6 Alpha Hemihydrate Screed

CASEA Casufloor C30/F6 Alpha Hemihydrate Screed is a factory produced, pumpable, high-quality screed material based on calcium sulphate. It is supplied to site in pre-mixed bags or site silos. Casufloor C30/F6 is designed for application at thicknesses of between 20 and 90 mm. Casufloor C30/F6 Alpha Hemihydrate Screed complies with EN 13813: 2002. and is CE marked.

- Smooth Laitance Free Finish
- Pumpable
- Under Floor Heating – Full Encapsulation
- Suitable For Underlayment In Wet Areas
- Reduced Drying Times
- CE Marked
- EN 13813: 2002

Field Of Application

Casufloor C30/F6 Alpha Hemihydrate Screed is suitable for floors in homes, offices, public buildings and places exposed to similar loads. Casufloor C30/F6 Alpha Hemihydrate Screed may be applied as a levelling screed directly onto a load bearing floor, unbonded on a separating barrier (polythene), as a floating floor and is particularly suited in conjunction with underfloor heating or cavity floors. Casufloor C30/F6 Alpha Hemihydrate Screed should be covered with a floor finish such as tiles, linoleum, parquet, cork or carpet. If a cement based adhesive or smoothing compound is required the surface of the screed must first be sealed, using an appropriate acrylic primer/sealer.

Working Instructions

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

Substrate

Casufloor C30/F6 Alpha Hemihydrate Screed is designed for use as a bonded thick levelling screed on concrete, as a floating screed over thermal or acoustic insulation, or as an unbonded screed on top of a plastic membrane.

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 must be at least 0.5 N/mm².



Dry and very porous substrates must be treated twice. If Casufloor C30/F6 Alpha Hemihydrate Screed 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.)

Mixing

Casufloor C30/F6 Alpha Hemihydrate Screed should be mixed with clean water. Mixing time, if using a hand held mixer, is 2 minutes. Do not mix more material than can be laid in 20 minutes. A suitable mixing pump i.e. Putzmeister SP11 should be used for large areas. The ideal temperature for mixing is between 10-20 °C.

Application

Pumping is carried out in sections so that a wet edge is maintained. A wide steel tampering bar is used to assist the levelling process. When applied bonded the minimum thickness of Casufloor C30/F6 Alpha Hemihydrate Screed should be 20mm, over underfloor heating this should be a minimum of 25mm over the pipes (35mm over insulation board). The open time is approx 45-60 mins. before tamping.

Storage

9 months under dry conditions.

Disposal Considerations

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

Classification according to Regulation (EC) No 1272/2008. The product is classified and labelled according to the CLP regulation. Hazard pictograms **GHS05** corrosion, **GHS07**. Signal word **Danger**. Hazard-determining components of labelling: Cement, portland, chemicals. 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

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 CA-C30-F6 DIN EN 13813: 2002	
Maximum Thickness	90mm
Minimum Thickness	Bonded: 20mm Unbonded: 30mm Domestic: 35mm Commercial: 40mm Over Underfloor heating Pipes: 25mm (BS 8204-7)
Modulus Of Elasticity	approx. 18 kN/mm ²
Delivery	approx. 550 l/t, approx 12.5 m ² @ 40mm, approx 22 L liquid screed per 40kg bag
Water Demand	7-8 L per 40 kg bag
Consumption	approx. 18 kg/m ² each 1 cm
Thermal Conductivity (Tabulated value)	$\lambda_R = 1.40 \text{ W/mK}$
Grain Size	0 - 2 mm
Flow Rate	210 – 230mm
Packaging	40 kg bags and silos



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EN 13813:2000, CA-C30-F6

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	F6
Acoustic Impact Insulation	NPD
Sound Absorption	NPD

*NPD: Properties not determined as they are not relevant (No Performance Determined)

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