

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 +10°C 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. It is not suitable for wet rooms.

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. The open time is approx 45-60 mins. before tamping. Ensure slump-flow is 21 - 23 cm (Vicat-ring). Protect from any risk of splashing. During application the temperature must be between 5 - 35°C.

Storage

9 months under dry, protected 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. 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.

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. **Hazard pictograms:** GHS05. **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

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-F6 DIN EN 13813	
Minimum Thickness	Bonded: 25mm, Unbonded: 30 mm. Floating: Domestic: 35mm, Commercial: 40mm. Over Underfloor heating Pipes: 25mm (BS 8204-7)
Compressive strength	$\geq 30.0 \text{ N/mm}^2$
Flexural strength	$\geq 6.0 \text{ N/mm}^2$
Modulus Of Elasticity	approx. 18 kN/mm^2
Yield	approx. 550 l/t; approx. 12.5 m ² /t with 40 mm application thickness; approx. 22 l wet compound per 40 kg bag
Consumption	approx. 18 kg/m ² each 1 cm
Water Demand	approx. 6.5 - 7 l per 40 kg bag
Thermal Conductivity (Tabulated value)	$\lambda_R = 1.40 \text{ W/mK}$
Grain Size	0 - 2 mm
Fire performance	Construction material class A1, non-flammable
Packaging	40 kg bags and silos

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	02 CASEA-114 610 EN 13813: 2002, CA-C30-F6 Dry screed mortar for indoor floor constructions
Fire performance	A1
Release of corrosive substances	CA
pH value	> 7
Water vapour permeability	NPD
Compressive strength	C 30
Flexural strength	F 6
Impact sound insulation	NPD
Sound absorption	NPD

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

CASEA
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