



CASEA Fine Flow Alpha Hemihydrate Screed

Fine Flow Alpha Hemihydrate Screed is a pumpable, high-quality screed material based on calcium sulphate. It is supplied using a pre-blended compound and is factory-produced on site. Mixed by our mobile screed factory with a special blend of CE marked aggregates, it meets the performance criteria of EN 13813: 2002. It is designed for application at thicknesses of between 10 and 50 mm. The screed material complies with EN 13813: 2002 and is CE marked. Designation: CA-C30-F6.

- Smooth Laitance Free Finish
- Pumpable – High Flowability
- Early Trafficking
- Very Low Shrinkage
- Reduced Drying Times
- CE Marked
- EN 13813: 2002

Field Of Application

Fine Flow Alpha Hemihydrate Screed is used in new build and 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.

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 also for one week after application.

Substrate

Fine Flow Alpha Hemihydrate Screed 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 0.5 N/mm². Dry and very porous substrates must be primed twice. If Fine Flow Alpha Hemihydrate Screed is to be applied on plastic sheeting or as a floating floor, a flexible perimeter insulation of minimum 10mm should be formed around the perimeter (walls, columns, etc.). Edge lengths > 30m require 20mm edge insulation.

Mixing

Fine Flow Alpha Hemihydrate Screed is produced to CE EN 13813: 2002 performance requirements by our mobile screed factory.

Application

Pumping should be carried out in sections so that a wet edge is maintained. A wide steel tampering bar or spiked roller should be used to assist the levelling process. When applied bonded, the minimum thickness of Fine Flow Rapid Alpha Hemihydrate Screed should be 10mm. Over underfloor heating, this should be a minimum of 25mm over the pipes for traditional systems (35mm over insulation board). Please contact us for suitability over proprietary UFH systems.

Disposal Considerations

Binder: 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.



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Safety

Binder: Caution. This product becomes alkaline when wet and may cause skin irritation. Classification according to Regulation (EC) No 1272/2008. GHS05 corrosion. Signal word: **Danger**. Hazard-determining components of labelling: Cement, portland, chemicals. See CASEA Health and Safety Data Sheet for further detailed information.

Hazard Statements

H318 Causes serious eye damage

Precautionary Statements

P102 Keep out of reach of children.

P280 Wear eye protection / face protection.

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.

Drying and Underfloor Heating Commissioning

Natural Drying: 1mm per day, up to 40mm thickness. (<65% RH, 20 degrees C). UFH commissioning: after 48 hours.

Technical Information

Screed Specification EN 13813: 2002	
Maximum Thickness	50mm
Minimum Thickness	Bonded: 10mm Unbonded: 30mm Domestic: 35mm Commercial: 40mm Over Underfloor heating Pipes: 25mm (BS 8204-7)
Use (External Use)	No
Use (Internal Use)	Yes
Strength Classes Available	CA-C30-F6
Partial load-bearing capacity	approx. 36 hours / 1.5 days depending on thickness and drying conditions
Shrinkage (28 days)	< 0.1 %
Flow Rate	280mm
Hardening Time (before foot traffic)	6 hours (under ambient conditions)
Floor Covering Residual Moisture Content	< 1.5% CM @ 15mm < 0.75% CM @ 30mm < 0.5% CM @ 40mm
Recommend water content	18 - 19 %
Pot life	Maximum 40 minutes depending on ambient conditions
Reaction To Fire	A1 Non Combustible



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