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 ºC 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/mm^2. 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

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

Binder: Classification of the substance or mixture 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.
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

FastFloorScreed mobile screed factory

CASEA Fine Flow Alpha Hemihydrate Screed

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.

Drying and Underfloor Heating Comissioning

Natural Drying: 1mm per day, up to 40mm thickness. (<65% RH, 20 degrees C). UFH commisioning: 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 Conbustible**

CE

EN 13813: 2002

CASEA WORKING FOR THE FUTURE

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