Longfloor®
liquid cement screed

Available from

liquid cement screed

Longfloor is manufactured in Derbyshire by Longcliffe Quaries Limited, the UK's largest independent producer of Limestone powders.

Longfloor is a dry powder bulk binder for the manufacture of a cement based liquid screed to a specification BS EN 13813:2002. Liquid screeds are also referred to as self-levelling or flowing. The binder is delivered in bulk powder tankers for storage in a silo. They are typically manufactured in specialist screed and mortar or ready mixed concrete batching plants, either through a pan mixer or batched straight in to a lorry mounted rotating drum mixer. Manufacture through volumetric trucks is also possible.

Longfloor binder consists principally of very fine high purity ground limestone, (calcium carbonate) powder plus a suite of dry chemical reagents and admixtures. The limestone powder assists flow and has cementitious properties which reduces the amount of cement required. Sophisticated controls are built in to the Longfloor manufacturing process to ensure the highest level of product consistency.

Other reagents and admixtures reduce water demand, assist flow and act to counter bleeding and shrinkage.

Longfloor binder is added to a fine aggregate, cement and water and delivered by concrete amixer truck from a stockists plant. Further liquid flow or retarder admixtures may also be added prior to placing.

Longfloor binder is manufactured by Longcliffe Quarries Ltd, a company with a 90 year history of quarrying and processing the exceptionally chemically pure Bee Low limestone in the White Peak area of Derbyshire. The quality assured Longfloor manufacturing plant is new and state of the art. A variety of raw materials and proportioned, milled and blended along with Longcliffe Quarries's exceptionally pure fine calcium carbonate limestone powder.

The company's main business is supplying ground calcium carbonates to the animal feeds, glass manufacturing and sealants and adhesives industries. A family owned independent company, it is the second largest industrial grade limestone powder manufacturer and supplier in the UK. Longfloor and its parent company Longcliffe Quarries run a 40 strong fleet of company owned and operated powder tankers operating 24/7. This ensures prompt and flexible delivery and eliminates any possibility of cross contamination.

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Key benefits

Produced by approved manufacturers with quality approved materials

Delivered by concrete truck mixer

Flow range is 260-280mm – very free flowing /self levelling but low water/ cement ratio

Longfloor is not susceptible to crazing, cracking or curling

1000m² + on a daily visit with 100 – 150m² without movement joints

Used in domestic, commercial & underfloor heating sectors

Compatible with all cement based tile adhesives

Can be laid at 25mm thickness

Drying times quicker than alternative systems

No requirement to sand the surface (laitance free)

Can be laid in wet areas

Can be foot trafficked after 24 hours

Sectors

Longfloor provides the ideal solution for the domestic floor market, commercial sector and for use with underfloor heating.

Longfloor liquid cement screed is perfect for use in both houses and commercial premises. It can be supplied as a C20 or C25mm/N^2 compressive strength product.

- Thinner sections than traditional screeds – from 25mm
- No joint requirement up to 100 – 150m^2
- Minimal risk of crazing, cracking and curling
- Low wastage
- Foot traffic typically after 24 hours
- Can be used in wet rooms
- Drying times one third of some alternative systems
- Truly free flowing / self-compacting product which self levels
- Laitance free – No site revisits to sand floor

Easy Installation

Installation, following a three stage process, is straightforward with almost zero manual handling. Full training can be provided by the Longfloor team.

Step 1 – Preparing the sub-base to receive a Longfloor Screed product

- Longfloor should only be laid on a well prepared substrate
- Screed can be bonded directly to concrete, un-bonded over a separation membrane (polythene), on acoustic insulation (floating floor) or directly over underfloor heating pipes
- Edge strips around perimeters, hard standings and pipes are required.
- Screed thickness can be achieved by the use of laser and tripods across the floor
- Ensure good ventilation in building

Step 2 – Pouring

- Flow test verified before product discharge from delivery vehicle
- Usually discharged from truckmixer through a pump and conveyed to floor area by hose
- Commence pour at furthest point from pump and work towards exit using tripods as appropriate
- Longfloor to be finished with the use of a dapple bar or dapple brush

Step 3 – Screed surface finish

- Longfloor product to be smoothed with the use of a dapple bar or dapple brush, ensuring this process is in 2 passes at 90 degrees
- Suitable curing agent sprayed on
- Ensure the building is well ventilated, once again for assistance during the curing process

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Longcliffe Quarries Ltd
Brassington, Matlock,
Derbyshire DE4 4BZ

Tel: 01629 540284
Fax: 01629 540569
Email: Sales@longfloor.co.uk
Registered No. 00273400