

Longfloor Th7N Data sheet

Longfloor Th7N is a specifically engineered low profile self-levelling cementitious liquid floor screed. Longfloor Th7N is a combination of Longfloor binder, Retanol Xtreme Pro 1, cement, water and a sand which is compatible. Longfloor Th7N is a high performing screed which complies with BSEN 13813:2002.

Longfloor Th7N has been designed for use in low profile screeds at depths ranging from 12 to 50mm, giving the end user an alternative option to an SLU material or a traditional sand and cement screed.

Benefits Of Longfloor Th7N

- Thin Section - Up to 70% less compared to traditional screed
- Light Weight - Down to 24kg/m² when bonded, offering up to a
- 70% lighter solution compared to traditional screed
- Versatility - Suitable for most floor conditions and all different types of floor finishes
- Cost Savings - Readymix solution, no on site mixing required, no need for bag storage or disposal, ensures high productivity
- Ease of placement - High fluidity, no reinforcement required
- Less labour intensive - Self compacting

Technical Information

Longfloor Th7N is produced in an ISO 9001 quality-controlled environment and meets the requirements of BS EN 13813:2002.

Compressive strength: C30

Flexural Strength: F8

Minimum Thickness:

Bonded - 12mm

Unbonded - 20mm

Rubber based Resilient Layer - 25mm

Commercial - 40mm

Low profile underfloor heating systems - 20mm above pipe

Drying shrinkage: <0.5mm/m (28days)

Flow Rate: 260 - 280

Fresh Density: 2100 - 2200 kg/m³

Substrate Type: Suitable for most substrates

Surface Irregularity: SR2 – BS 8204-7

ISCR Test: Category A

Foot Traffic: 24 - 48hrs

Maximum Bay Sizes:

Unheated = 250m²

Heated = 100m²

(floor area ratio to be considered)

The depths stipulated above are based on a standard thermal insulation being used, screeds can be installed at reduced depths if a higher strength insulation is used.

For further guidance please contact our Technical Team.

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Longfloor is the registered trade name of Longfloor binder for a liquid cement screed.

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Mix Designs

Laboratory trials are undertaken on the sources of sand supplied by the stockist prior to any work commencing. The sand being used should be of an approved quality and grading previously tested. Mix designs are issued by Longfloor containing a blend of Longfloor binder, cement, sand, water and admixture.

The proportions of the mix design can vary depending on the sand available. Retanol Xtreme Pro 1 must be diluted with water as per manufacturer's instructions.

Substrate

Longfloor Th7N Screed is specifically designed for use as a low profile levelling screed on new or existing concrete substrates as a bonded or an unbonded screed, or as a floating screed installed over thermal or acoustic insulation (as specified by the architect or design team).

If bonding is required the substrate must have a minimum compressive strength of 25N/mm², the surface must be sound and free from any contaminants such as dust, dirt, oil, or grease. Any laitance or surface treatments, such as curing agents, must be removed prior to installation. The substrate should be mechanically prepared to provide an open textured surface to allow an adequate bond between the screed and substrate. The substrate must be primed prior using a primer or similar. Please refer to guidance on the manufacturer's data sheet.

Application

Longfloor Th7N should be installed in accordance with BS 8204-7:2003, and industry best practice. Longfloor recommends its screeds should be installed by approved specialist screeding contractors to ensure a high standard of work.

Longfloor Th7N requires finishing with a dapple bar/spiked roller. Longfloor Th7N is designed to be installed in sealed/weather tight areas as per our installation guidelines and generally does not require a curing agent applied to the surface. If the screed is to be exposed to any form of wind/drafts or excessive sunlight, then a suitable curing agent (evaporation control agent) may need to be applied to the surface of the screed. Please contact our Technical Team for further information.

Curing

After placing the screed the material should be protected from severe draughts or sunlight. The area where the screed is placed should be sealed during the first 24-48hrs. After this time the area should be regularly ventilated daily by opening windows and doors to aid the drying process.

Drying Times

Longfloor Th7N is suitable to receive any floor finishes after 7 days. In ideal conditions (20°C and 65% relative humidity) the screed will have achieved 75% R/H (0.5% moisture) at 7 days. Underfloor heating systems can be turned on after 3 days and the system gradually brought up to operating temperature. These values are based on screed thickness up to 50mm. For under floor heating commissioning, please see our separate guidance document.

Floor Coverings

Longfloor Th7N screed is compatible with all types of floor coverings and all types of adhesives including fast track systems. The moisture content of the screed should always be measured before the installation of any floor covering; this is to ensure the floor is sufficiently dry.

Longfloor Th7N will not require any sanding to remove laitance. As part of the floor's preparation prior to taking floor finishes, it is recommended that the surface be lightly abraded to clean and remove any construction residue/contamination as this ensures that the surface has a good key to take the floor coverings. Please consult the CFA (Contract Flooring Assoc.) for further guidance.