

# Technical Data Sheet



Cemfloor Level Plus is a specially formulated ultra-thin self levelling cementitious floor screed. Cemfloor Level Plus is a mixture of Cemfloor binder, cement, water and a suitable sand. Cemfloor Level Plus is a high performance screed which complies with BSEN 13813:2002.

Cemfloor Level Plus is specifically designed for use as a thin section screed at a depth between 12-50mm and to bridge the gap between bagged SLU materials and standard screeds.

## Key Features & Benefits

- Thinner sections; up to 70% less compared to traditional screeds.
- Up to 70% weight saving compared to traditional screeds (24kg/m<sup>2</sup> at 12mm depth).
- Very cost efficient compared to bagged self leveling compounds.
- Suitable for use with various flooring systems e.g. low profile UFH panels.
- Minimal Drying Shrinkage (<0.4mm/m).
- Easy Installation (Reduces time & costs).
- Larger floor area without joints.
- Foot traffic after 24–48 hours.
- Can be applied in wet areas.
- Reduced drying times.
- Self compacting.
- Can be loaded after 7 days.
- No risk of contamination with other flooring products.
- No Surface Laitance (Dust) after curing.

## Substrate

Cemfloor Level Plus Screed is designed for use as a thin levelling screed on a new or existing concrete substrate, as a floating screed over thermal or acoustic insulation with a minimum compressive strength of 100kPa, or as an unbonded screed on top of a plastic membrane. When bonding to an existing substrate the substrate must have a minimum compressive strength of 25N/mm<sup>2</sup>.

Surfaces must be sound and free from dust, dirt, grease, oil and any other contaminants. Any laitance or surface treatments must be removed before use. The substrate should be mechanically prepared to provide an open textured surface to ensure an adequate bond between the screed and the substrate. The substrate must also be primed with a suitable priming agent.

## Mix Design

Trials should always be carried out to optimize the mix design before work commences. The sand used should be of an approved quality and grading. The screed is a blend of Cemfloor Binder, cement, sand & water. The mix proportions depend on the sand available.

## Application

Cemfloor Level Plus should be used in accordance with BS 8204-7:2003 'Code of Practice for Pumpable Self- Smoothing Screeds'. To ensure a high quality screed it is recommended that application is carried out by a specialist screeding contractor who has been approved to place Cemfloor Screeds.

The freshly poured screed will need to be levelled/finished using a dappling bar and/or a spiked roller. When Cemfloor Level Plus is installed as per installation guidelines in a sealed/weather tight area; it will not require any curing agent sprayed onto its surface. If the screed will be exposed to any wind/drafts or excessive sunlight then a suitable evaporation control spray (e.g. Cemfloor EC) may need to be sprayed onto the screed surface. Please contact our Technical Team for any further information.

## Curing

After placing the floor should not be subjected to severe draughts, direct sunlight or heating for the first 48 hours. The room in which the screed has been placed should therefore be sealed during this time. The room should be ventilated after 24-48 hours by opening windows and doors during the day to aid the drying process.

## Floor Coverings

Cemfloor Level Plus screed is compatible with all floor coverings, and all cementitious adhesives including fast track systems. The screeds moisture content should be measured before placing floor coverings to ensure that it is adequately dried.

Cemfloor Level Plus will not require any sanding to remove laitance. As part of the floor finish installation, it is recommended that the surface of the screed be lightly prepared to clean and remove any building residue/contamination to ensure that there is a good key to receive subsequent floor coverings.

# Technical Information

Cemfloor Level Plus is produced in an ISO 9001 quality-controlled environment and meets the requirements of BSEN 13813:2002 'Screed Material for Floor Screeds'.

| Screed Specification       | EN 13813:2002  |
|----------------------------|--|
| Compressive Strength       | C30  |
| Flexural Strength          | F6   |
| Minimum Thickness*         | <b>Bonded:</b> 12mm<br><b>Unbonded:</b> Domestic = 20mm Commercial = 30mm<br><b>Rubber Based Resilient Layer:</b> 25mm<br><b>Floating:</b> Domestic = 35mm Commercial = 40mm*<br><b>Low profile underfloor heating systems:</b> 12mm above pipes** |
| Drying Shrinkage (28 Days) | <0.4mm/m   |
| Flow Rate                  | 270–300mm  |
| Fresh Density              | 2100–2200 kg/m <sup>3</sup>  |
| Surface Flatness           | Min SR2  |
| ISCR Test                  | Category A   |
| Open to Light Foot Traffic | 24-48 Hours  |
| Maximum Bay Sizes          | Unheated = 150m <sup>2</sup><br>Heated = 100m <sup>2</sup><br>(area layout to be considered)   |

\*These depths are based on standard thermal insulation; it is possible to install at reduced depths if high strength insulation is used. Please contact our technical department for further guidance.

\*\* Please confirm minimum depth required with the manufacturer of the low profile underfloor heating system.

