



Technical Data Sheet



Cemfloor is a specially formulated binder that is used to create self levelling cementitious floor screeds. With the addition of Cemfloor the screeds performance is increased significantly and can be applied to a wide range of floors. Cemfloor binder is simply mixed with cement, water and a suitable sand to create a high performance screed which complies with EN 13813.

Key Features & Benefits

- Thinner sections compared to traditional screeds.
- Minimal Drying Shrinkage (<0.05%)
- Larger floor area without joints (up to 150m² for unheated floors and 100m² for heated floors.)
- Foot traffic after 24–48 hours
- Exceptional Thermal Conductivity (up to 2.9W/m.k)*
- Can be applied in wet areas.
- Reduced drying times (Depending on drying conditions)
- Self compacting – no voids around under floor heating pipes.
- No risk of contamination at concrete mixing plants.
- No Surface Laitance (Dust) after curing.
- Easy Installation (Reduces time & costs).

* According to Avis Technique CSTB No.EMI 14-26051749

Substrate

Cemfloor Screed is designed for use as a bonded thick levelling screed on concrete, as a floating screed over thermal or acoustic insulation, or as an unbonded screed on top of a plastic membrane.

Storage

Store in a dry designated area. Material is available in bulk, 1000kg & 25kg bags.

Safety

This product may cause skin irritation. Use goggles, gloves and protecting cream. Avoid prolonged contact with skin. Avoid inhaling the dust. Wash affected area with warm water and soap. Wash eyes thoroughly and consult a physician. Do not ingest.

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, cement, sand & water. The mix proportions depend on the sand available.

Application

Cemfloor screeds 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. The freshly poured screed will need to be levelled using a dappling bar, ensuring to dapple the surface in two passes at 90°.

Curing

After placing the floor should not be subjected to severe draughts, direct sunlight or heating for the first 24-48 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 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 screed will not require any sanding to remove laitance, but it is recommended to lightly abrade the surface to clean and remove any building residue and to improve the adhesion of the flooring adhesive to the hardened screed. It doesn't need to be primed or sealed before applying cementitious adhesives.

Technical Information

Cemfloor is produced in an ISO 9001 quality-controlled environment. Self levelling screeds produced with Cemfloor meet the requirements of EN 13813:2002 'Screed Material for Floor Screeds'.

| Screed Specification | EN 13813:2002 |
|----------------------------|---|
| Compressive Strength | C20, C25, C30 |
| Flexural Strength | F4, F5, F6 |
| Minimum Thickness | Bonded: 25mm Unbonded: 30mm Floating: Domestic: 35mm Commercial: 40mm Over underfloor heating pipes: 25mm above pipes |
| Shrinkage (28 Days) | <0.05% |
| Flow Rate | 230–260mm |
| Fresh Density | 2100–2200 kg/m ³ |
| *Thermal Conductivity | Up to 2.9W/mK |
| BRE Impact Test | Category A |
| Open to Light Foot Traffic | 24-48 Hours |
| Maximum Bay Sizes | Non-Heated Floors =150m ² Heated Floors =100m ² |

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