



Technical Data Sheet



Cemfloor Therm RTU is a specially formulated ready to use self levelling cementitious floor screed and can be applied to a wide range of floors. Cemfloor Therm RTU is a mixture of Cemfloor binder, cement, water and a kiln dried sand. Cemfloor Therm RTU is a high performance screed which complies with EN 13813:2002. Cemfloor Therm RTU is available in 25kg and 1000kg bags.

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
- 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).

Substrate

Cemfloor Therm RTU Screed is designed for use as a bonded thick levelling screed on concrete, 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.

Mixing

A 25kg bag of Cemfloor requires 3.4 – 3.8 litres of water. Add the pre-measured water to a clean bucket and slowly add the powder whilst mixing with an electric paddle. Mix until a smooth and lump free consistency is obtained. Do not add further water once mixed. Exceeding 3.8 litres of water per 25kg will result in water bleed, extended drying times, a weakened mix and poor surface finish.

N.B: Once mixed, Cemfloor Therm RTU has a pot life of approximately 30 minutes at 23°C.

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°. When cemfloor screed 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 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 Therm 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. It is however recommended that the surface of the screed be lightly abraded to clean and remove any building residue to ensure that there is a good key to receive subsequent floor coverings.

Technical Information

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

Screed Specification	EN 13813:2002
Compressive Strength	C25
Flexural Strength	F5
Minimum Thickness	Bonded: 20mm 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
Surface Flatness	Min SR2
ISCR Test	Category A
Open to Light Foot Traffic	24-48 Hours
Maximum Bay Sizes	Non-Heated Floors =150m ² Heated Floors =100m ²

