

## Rapidur® EB5 Rapid Drying Sand / Cement Levelling Floor Screed

Rapidur® EB5 Rapid Drying Sand / Cement Floor Screed is a pneumatically pumpable, high-quality, rapid drying, levelling floor screed material based on sand, cement and Sopro Rapidur® EB5 screed accelerator. It's mixed using Portland Cement, sand, fibres, Rapidur® EB5 screed accelerator and water, and is factory produced on site by our Smet Supported Partners. Our floor screed complies with the requirements of BS EN 13813:2002 and BS 8204: Part 1 and can be used for bonded, unbonded and floating floor screed constructions for both residential and commercial applications. The hydration process is speeded up through rapid water-binding properties allowing early floor covering installations.

- Factory produced on site
- Rapid drying and fibre reinforced
- Allowing early use of screed
- Allowing early floor covering installations
- Bonded, unbonded and floating floor screed constructions
- Suitable for underlayment in wet areas
- BS 8204-1 ISCR Categories A, B and C

### Field of Application

Rapidur® EB5 Rapid Drying Sand / Cement Floor Screed is suitable for floors in homes, offices, public buildings and places exposed to similar loads. It may be applied as a levelling screed directly onto a load bearing floor, unbonded on a separating barrier (polythene) or a floating floor. Rapidur® EB5 Rapid Drying Sand / Cement Floor Screed should and can be covered early with a floor finish such as tiles, linoleum, parquet, cork or carpet.

### Working Instructions

Light ventilation in the work area is necessary, however windows and openings must be closed sufficiently to avoid draughts, during and after application. Indoor and floor temperature should exceed +5C during and after application and for one week after that.

### Substrate

Rapidur® EB5 Rapid Drying Sand / Cement Floor 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.

### Substrate Preparation

In case of a bonded floor screed construction, the

substrate must be clean, dry, free of dust, grease and other impurities that might prevent adhesion. If it is a large area, the surface should be treated by mechanical preparation by grinding or shot blasting. The surface strength of the substrate has to be at least 0.5 N/mm<sup>2</sup>. Dry and very porous substrates must be pre-dampened or primed. If the floor screed is to be applied unbonded or as a floating floor screed construction, an edge insulation of minimum 8mm should be formed around the perimeter (walls, columns, etc).

### Location of Services

The laying of pipes or conduits within the thickness of a levelling screed should be avoided because cracking can occur over them and can lead to problems with subsequently applied floorings. If this is unavoidable, the pipes and conduits should be securely anchored in position and screed material well compacted around and over them to a minimum thickness of 25 mm above the pipes.

### Under Floor Heating

Heated screeds are generally laid in conjunction with proprietary underfloor heating systems as floating screeds over thermal insulation. The heating pipes or cables should be secured in position. Their installation details should be provided by the manufacturer of the heating system. Levelling screeds should be laid at the thicknesses recommended in BS 8204-1 or DIN 18560-2, unless otherwise specified by the manufacturer of the proprietary system. Suitable for heated screeds with max. +55 °C flow temperature. Prior to laying tiles or other floor coverings, screed should be heated up and allowed to cool in accordance with basic procedures required for traditional cement screeds. Heating phase should commence at earliest 5 days after screed laying. During first heating cycle, a +25 °C flow temperature should be maintained for 3 days. The system should then be set to maximum flow temperature, to be maintained for a further 4 days, before being lowered to laying temperature.

### Curing and Aftercare

The readiness of screeds for flooring installation is determined by screed thickness and ambient conditions on site. Subject to favourable site conditions and maximum nominal thicknesses of 50 mm, readiness for flooring installation of 3-5 days is generally achieved. As a rule, residual moisture in screed should be measured with CM tester prior to installation of moisture-sensitive or vapour-proof coverings. Moisture equilibrium in first weeks after laying is not automatically achieved and depends on ambient humidity/moisture.

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### Technical Information

Screed Specification EN 13813: 2002   BS 8204-1   DIN 18560	
Minimum Thickness BS 8204-1	Bonded: 40mm Unbonded: 50mm Floating Domestic: 65mm Floating Commercial: 75mm
Minimum Thickness DIN 18560	Fully Bonded: 25mm  Unbonded: 35mm EL ≤ 1 kN FL ≤ 2kN/m <sup>2</sup> Unbonded: 45mm EL ≤ 2 kN FL ≤ 3kN/m <sup>2</sup> Unbonded: 55mm EL ≤ 3 kN FL ≈ 4kN/m <sup>2</sup> Unbonded: 60mm EL ≤ 4 kN FL ≈ 5kN/m <sup>2</sup>  Floating: 40mm EL ≤ 2 kN FL ≤ 2kN/m <sup>2</sup> Floating: 55mm EL ≤ 2 kN FL ≤ 3kN/m <sup>2</sup> Floating: 60mm EL ≤ 3 kN FL ≈ 4kN/m <sup>2</sup> Floating: 65mm EL ≤ 4 kN FL ≈ 5kN/m <sup>2</sup>  With Underfloor Heating, Min. thickness + mm diameter of UFH pipe. (i.e. min. thickness floating + 16mm).
Use (External Use)	Yes
Use (Internal Use)	Yes
Strength Classes Available	CT-C30-F5 BS 8204-1 ISCR Category A, B, C.
Hardening Time (before foot traffic)	12 hours (under ambient conditions)
Drying Time	After 3 – 5 days for subsequent tiling; after achievement of residual moisture content ≤ 1.8% CM for other floor coverings, e.g. linoleum, PVC etc. and wood or parquet floorin
Reaction To Fire	A1 Non Combustible
Thermal Conductivity	1.0 W/mK (EN 12424)
Wet Density	Approx. 2,100 kg/m <sup>3</sup> (2.1 kg/mm/m <sup>2</sup> )
Dry Density	Approx. 1,800 kg/m <sup>3</sup> (1.8 kg/mm/m <sup>2</sup> )



**EN 13813: 2002**  
**EN 13813 CT – C30 – F5**  
**Cement screed material for use internally and externally in buildings**

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