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# Liquid Screed

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# LIQUID SCREED

## Tracey Liquid Screed is a specially formulated calcium sulphate self-levelling (flowing) Floor Screed.

The product is a high quality factory produced screed to EN 13813: 2002. Flowing screeds have many obvious benefits over traditional sand and cement screed: quicker to lay; thinner screed depth; less labour intensive; much lower risk of shrinkage or cracking however, the main benefits are seen when they are used with underfloor heating systems.

Flowing screeds fully encapsulate the heating pipes without voids and need only to cover the pipes by 25mm, resulting in a much more responsive heating system which in turn is more economical to run. Further reduced screed thickness enables maximised insulation, resulting in improved U-values.

- Apply up to 1000m2 per day
- Low Shrinkage
- Reduced Screed Thickness
- Maximise Insulation Thickness
- Maximises Underfloor Heating Performance
- BS EN 13813: 2002 CA – C25 – F5


## Advantages Over Traditional Floor Screed

- Quicker To Lay
- Thinner Screed Depth
- Less Labour Intensive

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# INSTALLATION

## PREPARATION

Use of Tracey Liquid Screed should be in accordance with BS 8204-7: 2003 Code of Practice for pumpable self-smoothing screeds. The building must be weathertight prior to the placing of any screed material: the roof, external doors and windows must be in place and closed or covered and taped to prevent draughts. All substrates must be suitable to receive the screed as per current good working practices.

All substrates for bonded constructions should be clean and thoroughly sound; they should be free from standing water, oils, grease, dust, loose particles or any other contaminants which may interfere with adhesion. For floating (or unbonded) and underfloor heating constructions, it is imperative that the highest quality preparation is carried out. All insulation boards should be installed in such a way as to provide a clean even base.

A suitable (500$\mu$m) polythene sheet should be applied over the insulation. All joints should be lapped to 100mm and fully taped. A suitable 8mm PE foam expansion strip should be fitted to the full depth of screed around the entire perimeter of the floor. Corners and joints should be constructed neatly and taped to form a watertight seal. All openings should be suitably sealed to prevent screed material escaping. Heating pipes should be laid as required and mechanically fixed every 300mm. It is also recommended that pipes be filled with water to prevent lifting. Isolation strips should be placed in door thresholds where there is likely to be a difference in operating temperature in underfloor heating circuits.

It is recommended that designated areas be left without under floor heating pipes and their location clearly marked, to allow the easy sampling for CM moisture readings without risk of damage to the heating system.

## APPLICATION

The ready-to-use screed is transported to site by ready mix truck in quantities of 7m3 at a time. The screed should be pumped into place using a suitable pump. The pump hoses should be first primed/ lubricated with a slurry of binder and water. The level should be set with tripod markers and a suitable laser level or water level before pumping commences. After placing, the screed should be lightly tamped with T-bars or similar to ensure full compaction.

The screed should be protected from draughts during installation and for the first 12 hours. The screed should be dry (less than 0.5% moisture content measured by CM) before covering. This can be accelerated by the use of dehumidifiers or by commissioning of the heating system after 7 days. (Please refer to after-care datasheet)

## RESTRICTIONS

Calcium Sulphate based screeds are not suitable for use externally. Joints should be formed in accordance with BS 8204, maximum unbonded areas of 50m2, aspect ratios no more than 2:1, form joints at stress points i.e. door openings etc. Calcium Sulphate based screeds must be suitably primed prior to the application of subsequent cementitious materials, e.g. tile adhesives, (latex) levelling compounds etc.

| TECHNICAL DATA – BS EN 13813 | | Flexural Strength | F5 |
|---|---|---|---|
| Compressive Strength | C25 | Shrinkage | < 0.02% |
| Dry Density | 1800 kg/m3 | Fire rating | A1 |
| BRE Impact Test | 2mm | Thermal conductivity | 1.6 W/mK |

| TYPE OF FLOOR | AREA OF USE | MINIMUM THICKNESS |
|---|---|---|
| Bonded Screed | Domestic & Commercial | 20mm |
| Unbonded Screed | Domestic & Commercial | 30mm |
| Floating Screed | Domestic | 35mm |
| | Commercial | 40mm |
| Pipe Cover | Domestic & Commercial | 25mm |

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