

# Supaflo | TS-15

## technical datasheet

### A high quality ultra thin screed for bonded and unbonded applications

Supaflo TS-15 is a thin section screed based on an anhydrite binder. It is formulated to provide a strong and durable, ultra-thin topping to solid internal substrates such as, in situ concrete slabs, beam and block sub floors and precast concrete planks. When tested for in situ crushing resistance to BS8204:1:2003 Supaflo TS-15 achieved Category A. Supaflo TS-15 can be installed to a minimum thickness of 15mm which improves drying times compared to traditional screeds and enables the finished flooring to be installed sooner.

Supaflo TS-15 is ideally suited to projects where available height and or permitted loading are extremely restricted. For example, a situation that might previously have used smoothing compounds to provide a suitable surface on to which the final flooring is applied.

If used as an alternative to a smoothing compound some post installation treatment may be required before the final flooring is applied, such as light sanding. Supaflo TS-15 cannot be finished to a feather edge.

Supaflo TS-15 is designed to be installed as either a bonded or unbonded screed. For bonded applications the subfloor should be appropriately treated, this may include mechanical abrasion e.g. Shot blasting, and the complete removal of arising detritus (preferably using a vacuum cleaner) and the application of an organic polymer bonding agent (epoxy resin or polymer dispersion) prior to installation. For unbonded applications Supaflo TS-15 should be installed on unfolded polythene sheeting of ideally 500 gauge (approximately 110µm thick). Thick folded sheeting has the potential to induce cracks in the screed.





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## Application

- Refurbishment of uneven floors.
- Remediation or correction of out of level concrete slabs.
- As a levelling screed over floors with restricted ceiling heights.
- Overlay for poorly installed / levelled screeds.
- As an alternative to light weight screeds, where loading is restricted.

## Site work

Supaflo TS-15 is delivered to site ready mixed, once tested and if required, the flow adjusted. It should then be pumped directly to the point of use. There is no requirement for on-site mixing; only placing.

A typical, well maintained, rotor stator pumps can deliver the product 150m horizontal and 60m vertical and discharge a 5m<sup>3</sup> load in approximately 30 minutes.

Supaflo TS-15 is finished using lightweight dapple bars (15 to 25mm Ø).

Supaflo TS-15 should only be used if the building envelope is complete; doors and windows should be in place and must be closed for the first 24 to 48 hours after installation.

Bay sizes should be restricted to 500m<sup>2</sup> for areas of approximately equal dimension. For long thin sections the maximum recommended aspect ratio is 1:4.

## Performance

<b>Working time</b>	Batched, transported, placed and finished within 3 hours
<b>Foot Traffic</b>	24 to 48 hours
<b>Loading</b>	5 to 7 days
<b>Drying time</b>	Approximately 1mm per day, (can be forced dried after 7 days)
<b>Thickness (min)</b>	15mm minimum at any point

## Technical\*

<b>Appearance</b>	Off white fluid mortar
<b>Density</b>	Plastic 2150 - 2250kg/m <sup>3</sup> Dry 1950 - 2050kg/m <sup>3</sup>
<b>Strength (28 day)</b>	CA C35 – F6
<b>Flow</b>	230 to 270mm <small>(BS8204:7 Annex A, Truncated cone)</small>
<b>Reaction to fire</b>	Class A1 <sub>fl</sub> non combustible

## Environmental\*

<b>Recycled content</b>	Binder 98% Mortar up to 40%
<b>Carbon emissions</b>	Binder 10 to 20kg per tonne Mortar 20 to 40kg per m <sup>3</sup>
<b>VOC</b>	Virtually zero
<b>Recyclability</b>	100%

\*Figures provided by LKAB Minerals

This product range can be found in the following resources and supported with an approved CPD presentation:

