

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.





SUPAFLO® TS-15

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 5m³ 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 500m² for areas of approximately equal dimension. For long thin sections the maximum recommended aspect ratio is 1:4.

Performance

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

Technical

Appearance	Off white fluid mortar
Density	Plastic 2150 - 2250kg/m ³ Dry 1950 - 2050kg/m ³
Strength (28 day)	CA C35 – F6
Flow	230 to 270mm (BS8204:7 Annex A, Truncated cone)
Reaction to fire	Class A1 _{f1} non combustible

Environmental

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