

SUPAFLO[®] SUMMIT

technical datasheet

A strong, durable levelling screed for high rise applications

Supaflo SUMMIT is a self compacting flowing screed based on an anhydrite binder. It is specifically formulated to provide a strong and durable levelling screed for high rise applications for example where there is a requirement to pump the screed above 10 floors.

It is important that the correct pump and hoses are used for each project; very high level applications, greater than 30 floors may require specialist equipment and or the services of an experienced high level pumping contractor.

Supaflo SUMMIT can be installed as a bonded, unbounded or floating screed.

For bonded applications the subfloor should be appropriately treated to ensure sufficient bond develops between the screed and the underlying layer. This may include shot blasting, the removal of arising detritus and the application of an organic polymer bonding agent (epoxy resin or polymer dispersion) prior to installation.

For unbounded applications Supaflo SUMMIT should be installed on unfolded polythene sheeting of ideally 500 gauge or a damp proof membrane (DPM) if the subfloor comprises in situ concrete.

For floating floors, including those containing an under floor heating system, a separating layer (polythene sheeting) should be placed on top of the insulation, this may be in addition to a DPM lower in the floors construction.





SUPAFLO® SUMMIT

Application

Supaflo Summit can be used on steel frame, concrete frame, lightweight steel and masonry construction.

Suitable for residential and commercial projects.

Can be used to meet Part E of building regulations acoustic performance requirements.

Site work

Supaflo SUMMIT 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.

A typical, well maintained, worm pump should be able to deliver the product 100m horizontal and 30m vertical and discharge a 5m³ load in approximately 30 minutes.

Supaflo SUMMIT is finished using lightweight dapple bars (15 to 30mm Ø) the product should be dappled twice in adjacent directions.

Supaflo SUMMIT 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 to avoid excessive drying in the early life.

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 up to 40mm, then 0.5mm per day Can be forced dried after 7 days
Thickness (min)	Bonded - 25mm Unbonded - 30mm Floating - 35mm (domestic) 40mm (commercial) Heated - 25mm cover above pipes or cables

Technical

Appearance	Off white fluid mortar
Density	Plastic 2150 - 2250kg/m ³ Dry 1950 - 2050kg/m ³
Strength (28 day)	CA C25 – F4
Flow	230 to 270mm (BS8204:7 Annex A, Truncated cone)
Reaction to fire	Class A1 _{fl} 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%