



CLARKE CONTRACTS

CLARKE CONTRACTS IS THE LEADING PLASTERING AND FLOORING CONTRACTOR in the Province with over 30 years experience. Based in N. Ireland it has a reputation founded on excellence and quality throughout the UK and Ireland.

We have a specialised and highly experienced team to meet the rapidly changing requirements of today's building projects. As the contractor of choice we support construction projects from the pre-tender stage right through to on site activity.

We have been laying flowing screeds for over 10 years in hospitals, schools and residential developments and now with the introduction of CEMEX Supaflo® it has become a viable and attractive option for the one-off house builder.

CEMEX Supaflo®

CEMEX Supaflo® has been scientifically developed to allow for quicker application, excellence in surface finish, attainable accuracy of placement, reduction in thickness and substantial reduction in movement joints.

Clarke Contracts are approved applicators and meet the strict criteria for the application of CEMEX Supaflo® and the complete flooring system - taking responsibility for the sub base approval and the installation of taped debonding membranes and specialised perimeter strips.

Productivity

It is possible to install up to 1500m² of Supaflo® per day when compared to a maximum of 150m² per day of traditional sand and cement based screeds.

Screed Type	Achievable daily installed area
4:1 sand and cement screed	≤ 150m ² @ 75mm
CEMEX Supaflo®	≤ 1500m ² @ 40mm

Compliance & Testing

Supaflo® has been designed to comply with the requirements of:

- European standard BS EN 13613:2002 screed material and floor screeds, Screed Material – Properties and Requirements
- Code of Practice for Floor Screeds, BS 8204: Part 7
- All British and European Standards in

relation to all constituent materials

- The calcium sulphate used in Supaflo® binders is produced under ISO 9001 stringently controlled conditions
- Building Research Establishment Screed Test and indentation requirements BS 8204

Every load of Supaflo® is tested prior to delivery by CEMEX quality control technicians. An acceptance test is also carried out by Clarke Contracts before it is pumped.

Characteristics

Compaction – The flow characteristics of Supaflo® means that voids and poor compaction are virtually eliminated. The material self compacts as it flows into position, giving good resistance to abrasion and impact when compared to conventional screeds.

Shrinkage – Supaflo® has virtually no drying shrinkage. Movement joints are rarely necessary, however large, as long as the aspect ratio does not exceed approximately 1:6 of the total area of 2000m².

Fire Protection – Supaflo® is non combustible as defined by BSEN 13501-1.

Acoustic performance – Supaflo® is far superior to that of conventional screeds (Part E regulations).

Durability – Supaflo® as with virtually all screeds is not a wearing surface and requires covering with a suitable surface finish.

Wet Areas – Supaflo® should not be used in areas where it will be continuously wet, or in regular contact with water.

Protein Free – Cannot harbour harmful bacteria.

Thickness & Area

The natural flexural strength of Supaflo® and the lack of voids, means it may be laid substantially thinner than conventional materials.

If Supaflo® is a replacement screed the thickness may be reduced and the overall thickness of 75mm made up with appropriate

floor grade insulation material. Drying time will be significantly reduced allowing the wearing surface to be laid sooner.

The minimum thickness of application is shown in the table below:

Type of construction	Minimum application Thickness (mm)
Unbonded	30
Floating	35

Site work

Supaflo® is delivered to site ready to use and pumped directly to the point of use; this means no site mixing, only placing.

A typical pump output can cope with 150m horizontal distances and 60m vertically.

It takes 25 minutes to pump 5m³ of Supaflo®.

It is preferable during construction to ensure a steady supply throughout the placement with no break in continuity that exceeds one hour.

The material should be pump placed onto a prepared membrane with minimum 5mm compressible plastic strips on all perimeter edges.

Under floor heating may be used 5 days after placing the screed however the temperature should be increased from ambient by no more than 5 (degrees) a day until full operating temperature is reached.

Curing

Care should be taken to avoid excessive water loss in the first 24 hours.

Any unglazed or missing windows or doors should be temporarily blocked using plastic sheeting to avoid excessive drying for the first 24 hours.

After 48 hours, all windows and doors should be opened to allow circulation or de-humidifiers may be used to force dry the material.

Direct sun must also be avoided during early life.

Supaflo® can be lightly trafficked after 1 to 2 days, depending on drying conditions.

NOTE: CEMEX Supaflo® must be vacuum cleaned and primed with an acrylic or water based epoxy primer prior to the installation of all floor finishes.



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	CEMEX SUPAFLO®	Sand and Cement
Productivity	<ul style="list-style-type: none"> ✓ Easily up to 1500m² per day ✓ Average 500 – 1000m² per day 	<ul style="list-style-type: none"> ✗ Only 100 to 150m² per day
How quickly can you walk on the floor?	<ul style="list-style-type: none"> ✓ Within 24 to 48 hours ✓ No curing needed 	<ul style="list-style-type: none"> ✗ Should not be walked on for 7 days ✗ Requires covering and curing
Joints	<ul style="list-style-type: none"> ✓ 30 – 40 linear meters ✓ Following building construction joints 	<ul style="list-style-type: none"> ✗ Can only be laid in small bays of between 5-7 linear meters
Performance	<ul style="list-style-type: none"> ✓ Very low shrinkage ✓ Minimal cracking ✓ Will not curl 	<ul style="list-style-type: none"> ✗ Shrinks ✗ Cracks ✗ Curls
Surface Finish	<ul style="list-style-type: none"> ✓ Easily achieves SR2 under BS 8204 	<ul style="list-style-type: none"> ✗ Dependent on contractor ✗ Curls and cracks at joints
On Insulation	<ul style="list-style-type: none"> ✓ No reinforcement required ✓ 40mm minimum thickness in commercial buildings ✓ 35mm minimum in domestic buildings 	<ul style="list-style-type: none"> ✗ D49 or fibre reinforcement ✗ 65mm minimum thickness
Un-bonded Floor Construction	<ul style="list-style-type: none"> ✓ Polythene laid directly to substrate minimal preparation ✓ No reinforcement ✓ 30mm minimum thickness 	<ul style="list-style-type: none"> ✗ D49 or fibre reinforcement ✗ 50mm minimum thickness
Average Drying Times	<ul style="list-style-type: none"> ✓ 1mm per day up to 40mm ✓ Dependent on site conditions 	<ul style="list-style-type: none"> ✗ 11 weeks at 75mm thickness ✗ Dependent on site conditions
Quality Control	<ul style="list-style-type: none"> ✓ Produced under BS EN 13454 	<ul style="list-style-type: none"> ✗ Often mixed on site by hand with poor quality control ✗ Labour intensive ✗ Inconsistent
Cost	In most applications CEMEX SUPAFLO® gives cost/time savings over traditional hand applied sand and cement screed	

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