

Product Data Sheet RAPID FLO SCC - 07

Introduction

The Mortar & Screed Company Ltd's RAPID FLO SCC Self-Compacting concrete is a significant advancement in concrete technology, designed to flow under its own weight and completely fill formwork without the need for mechanical vibration. This highly fluid yet stable mix ensures superior consolidation, even in complex or heavily reinforced structural elements, reducing labour demands and improving surface finish quality. The primary benefits include:

- Enhanced installation efficiency and consistency
- Improve durability and homogeneity,
- Reduce construction noise and vibration hazards

Technical Information

All screeds supplied are produced and manufactured to the requirements of BS EN 13813 under a quality system, externally audited and certified to ISO 9001. We offer comprehensive technical sales support service for specifiers and customers. Appointments can be booked for site visits, and we always welcome an invite to the site pre-start meetings.

Constituents & Manufacture

RAPID FLO SCC is engineered to meet stringent performance criteria. Its rheological behaviour is finely controlled through optimized proportions of cementitious materials, aggregates, and chemical admixtures including high-range water reducers and viscosity-modifying agents.

RAPID FLO SCC is supplied with Steel reinforcement fibres to eliminate the need for steel mesh. The steel fibre dosage is rate is supplied to comply fully with NHBC requirements. It also contains special fibres to help mitigate the risk of cracking. Joints and saw cuts should be installed using the latest industry guidance.

Strength and Durability

When specified and used in accordance with the Codes of Practice, RAPID FLO SCC will last the design life of the build.

RAPID FLO SCC has excellent durability for various applications. This is due to the carefully selected materials used and accurately proportioned mixing.

Taking special care with internal corners. RAPID FLO SCC is formulated to reduce the risk of cracking. Please note that the surface quality of the finished floor can only be achieved when good site practice and curing is promoted. The weather, level of protection and correct use of curing agent is crucial. Laying RAPID FLO SCC in temperatures exceeding 25°C should be avoided.

Application Types

- Concrete slabs
- Retaining walls
- Precast elements
- Void and hole filling
- Repair and refurbishment



THE MORTAR & SCREED COMPANY LTD

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Curing

After laying RAPID FLO SCC a curing agent is recommended to be applied to the concrete surface immediately following installation. Light foot traffic – 3 days, site traffic – 7 days.

Drying Times

Estimated Drying/Setting Times for SCC

Stage	Estimated Time	Notes
Initial Setting Time	4 to 6 hours	Slightly longer than conventional concrete
Final Setting Time	6 to 10 hours	Dependent on ambient temperature.
Formwork Removal (Horizontal)	24 to 48 hours	Longer for slabs and soffits
Walkable Surface (Light Load)	24 to 48 hours	Suitable for foot traffic; can vary with site conditions.
Dry for laying Screeds/ Finishes	2 to 6 weeks or more	For moisture sensitive finishes -, RH must be < 75%.
Full Drying (20mm per side)	Approx. 1 mm per day for 20mm	Estimated moisture dispersal. Longer if damp or cooler

High humidity and low temperatures can also extend drying times.

All Self-Compacting Concrete should be checked for moisture content prior laying potentially sensitive floor coverings.

Health & Safety Information

Contact with wet cement can cause serious burns and can lead to contact dermatitis.

All who may come into contact with wet cementitious materials must read and understand our safety data sheet and use the correct personal protection equipment. Please refer to our screed safety data sheet.

Placing an Order

When ordering, please be aware of the required screed type, quantity in tonnes or cubic metres and your preferred time of delivery.

Prices

Prices will vary according to mix designs, quantity and delivery locations. For a precise quotation please call our sales office on 01543 629009

Further Requirements

If you require any further information or technical support with any of our range of products, please do not hesitate to contact us on 01543 629009 or email info@mortarandscreed.co.uk.

