

Ronez Flow Product Information



Ronez Flow is a range of highly specialised self compacting concrete formulations, each presenting significant advantages over the equivalent traditional concrete.

Designed to provide a highly fluid consistency and minimal energy consumption in use. Ronez Flow is based on carefully selected and controlled binders and admixtures in conjunction with aggregates selected in accordance with the proposed end use.

Ronez Flow offers contractors and specifiers a high performance, secure fast track solution to many of the more challenging aspects of construction.

Ronez Flow is available in four categories.

Ronez Flow A	An architectural grade for very high quality finishes
Ronez Flow H	Intended for internal flooring and screeding applications and other horizontal slabs
Ronez Flow V	A general purpose grade intended for use in framed and general construction
Ronez Flow F	For use in all foundation applications where access is restricted

Ronez Flow when correctly specified and placed will deliver:

- High quality finishes - Ronez Flow is capable of delivering the finest surface finish and detail in areas of difficult access, complex formwork or very heavily reinforced sections. The mix design concept applied to products in this range ensures each product is robust under all normal site conditions
- Reduced or eliminated remedial work
- Reduced labour requirements - labour friendly concrete, the simplicity of placing together with the elimination of compaction and in many instances only very minor finishing effort will ensure a project achieves savings in terms of time and cost
- Ronez Flow is easier to place and finish than conventional concrete, and is available in standard strengths up to 40 N/mm². Higher grades are possible, and our products can be supplied in a range of colours
- Improved output in precast environments
- Reduced impact on the environment - noise impact of the construction operation is greatly reduced, concrete pumps run more quietly and the need for all forms of vibration is eliminated. The use of power floating is eliminated

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- Reduces placing and finishing time - the enhanced rate of placing that can be achieved using Ronez Flow allows the scheduling of larger pours or a reduction in working hours required. The elimination of late working or overtime costs can significantly benefit the environment through these actions
- The potential to eliminate late working and finishing is a significant reduction in the environmental impact of construction
- Ronez Flow preparation allows the contractor to 'place and finish' concrete without the normal delay between placing and finishing operations. Volumes of 350m³ to 450m³ of completed flatwork are readily available within a normal 10 hour shift
- When used as a screed, can offer superior performance over traditional sand cement and flowing screed mixes
- Elimination of "vibration white finger" risk
- Ronez Flow can be tailored to the particular challenges of your contract
- Ronez Flow H is compatible with flowing screed when used in association with underfloor heating systems

Applications

Ronez Flow may be utilised in all forms of construction in residential, transport infrastructure, office and administrative buildings as well as military engineering, hotels, schools and hospitals repair and refurbishment.

Manufacturing standard

Ronez Flow conforms to the requirements of European standard BS EN 206-1 :2001 concrete - Part1: Specification, performance, production and conformity and with the requirements of BS8500-1 and BS 8500-2 2006.

As with all Aggregate Industries' products Ronez Flow is manufactured under an independently monitored third party quality assurance scheme in accordance with ISO 9001, and with factory environmental compliance to ISO 14001.

Ronez Concrete was the first ready-mixed concrete business to achieve the 'Excellent' rating set by BES 6001 Responsible Sourcing.

Installation standard

The Ronez Flow range may be placed by any conventional method. Achieving the optimum finished surfaces may require discussion with our technical services department before construction begins. Successful placing has been achieved using pump, conventional skip and direct placement methods.

All Ronez Flow H flatwork elements including thin overlays and screeds must contain fabric reinforcement, as a measure of controlling cracking.

When placing Ronez Flow it is normal to use trained operatives, should you require support with the training Ronez Concrete would be happy to assist.

Curing

As with any concrete to achieve the desired properties it is essential to ensure correct and adequate curing.

Self compacting concrete has a high fines content and has a low tendency to bleed; this characteristic means the initial curing operations should begin as soon as practicable after finishing the surface to minimise the risk of premature drying and plastic shrinkage cracks. For larger pours the curing process must run consecutively to the finishing operation. The use of a correctly applied 90% efficiency curing membrane has been shown to be adequate. Curing should continue for a minimum of 7 days

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Typical performance and technical data

The engineering properties of Ronez Flow may be taken as being in all respects similar to conventional concrete and for design purposes should be assumed to be those stated in EN1992-1-1 table 3.1 .

Available in strength classes	C20 to C40 higher grades possible
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Flexural strength from	4 to 8 N/mm ²
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Typical drying shrinkage	0.6%
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Maximum laying thickness Ronez Flow H	75mm
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The consistence class to be utilised is dependent upon the application, it will be discussed and agreed prior to supply.

COSHH data

Full COSHH data on Ronez concrete products is available on request. Please call our technical department.

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