

MasterRheobuild® 561M

High range, water reducing superplasticiser for rheoplastic concretes

DESCRIPTION

MasterRheobuild 561M is formulated from synthetic polymers specially designed to impart rheoplastic qualities to concrete.

A rheoplastic concrete is a fluid concrete with a slump of at least 200mm, easily flowing, but at the same time free from segregation and having the same water/cement ratio as that of a low slump concrete (25mm) without admixture.

MasterRheobuild 561M is chloride free.

ADVANTAGES

MasterRheobuild 561M considerably improves the properties of fresh and hardened concrete.

PRIMARY USES

- Microsilica concrete
- Mass concrete pours
- Ready mixed concrete
- Long-distance transport
- Pumped concrete
- Casting in hot climates

To obtain:

- Reduced thermal peaks
- High workability for longer periods
- Lower pumping pressure
- Delayed setting and longer workability
- Higher ultimate strengths
- Reduced permeability
- Improved durability

COMPATIBILITY

MasterRheobuild 561M is compatible with all cements and most air entraining agents meeting the ASTM standards. The addition of **MasterRheobuild 561M** and **MasterAir 100** (air entraining agent) to concrete is recommended where it is required to withstand freezing and thawing cycles.

PACKAGING

MasterRheobuild 561M is available in bulk or in 210 litre drums.

STANDARDS

EN 934-2 Tables 3.1, 3.2, 11.1 and 11.2

ASTM C-494 Type A, B, D, F and G

TYPICAL PROPERTIES*

Colour:	Dark brown liquid
Specific gravity:	1.210 at 25°C
Chloride content:	"chloride-free" to EN 934
Freezing point:	0°C

APPLICATION GUIDELINES

DOSAGE

Optimum dosage of **MasterRheobuild 561M** should be determined in trial mixes. As a guide the following dosages are recommended as a starting point for any trial. In normal concrete a dosage of between 0.8-2.0 litre / 100kg total cementitious material. In high performance micro silica concrete a dosage of between 1.5-3.0 litre / 100kg total cementitious material. Dependant upon mix requirement, it is possible to use a higher dosage of **MasterRheobuild 561M** without causing any adverse effects upon the concrete. Please consult Master Builders Solutions Technical staff for further information.

DISPENSING

MasterRheobuild 561M is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the concrete after 50 to 70% of the mixing water has been added. The addition of **MasterRheobuild 561M** to dry aggregate or cement is not recommended. Automatic dispensers are available.

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WORKABILITY

MasterRheobuild 561M ensures that rheoplastic concrete remains workable in excess 3 hours at +20°C.

Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot and dry climates.

STORAGE

MasterRheobuild 561M must be stored where temperatures do not drop below +5°C. If product has frozen thaw and agitate until completely reconstituted. Store under cover, out of direct sunlight and protect from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Master Builders Solutions Technical Services Department.

HEALTH AND SAFETY

MasterRheobuild 561M is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information refer to the material safety data sheet.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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