

# MasterRheobuild 561M

High range, water reducing superplasticiser for rheoplastic concretes

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

**MasterRheobuild 561M** is chloride free.

### 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 with longer workability
- Higher ultimate strengths
- Reduced permeability
- Improved durability

## ADVANTAGES

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

## 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.

## 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.

## TYPICAL PROPERTIES\*

Properties listed are for guidance and are not a guarantee of performance.

Appearance	Brownish liquid
Specific gravity @25°C	1.120 -1.190
Air Entrainment	1-2%, dependant on dosage
pH value	6.0 – 8.0
Freezing Point	-2°C; can be reconstituted if stirred after leaving to thaw
Flash Point	None

## STANDARDS

ASTM C-494 Type B, D and G  
BS 5075 Part 1 and 3

## PACKAGING

**MasterRheobuild 561M** is available in 20L, 210 litre drums, 1000 litre IBCs or in bulk.

## DOSAGE

**MasterRheobuild 561M** is normally dispensed at a rate of 0.6 to 1.2% dependant on ambient conditions and requirements. For further information please consult your local Technical Services Department.

## 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.

It is strongly recommended that concrete should be properly cured particularly in hot and dry climates.

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## STORAGE

Store under cover out of direct sunlight and protect from extremes of temperatures. Shelf life is 12 months from date of manufacture when stored in undamaged, unopened packaging.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage and disposal advice consult your local MB Construction Chemicals Solutions South Africa (Pty) Ltd Technical Services Department.

## SAFETY PRECAUTIONS

MasterRheobuild 561M is not a fire or health hazard. Spillages should be washed down immediately with cold water.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin, and foodstuffs (which can also be tainted with vapour until product is fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers and dispose of as per local regulations.

For further information refer to the material safety data sheet.

## NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

## QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

\* Properties listed are based on laboratory controlled tests.

## DISCLAIMER

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