

# MasterRheobuild<sup>®</sup> 601

High range water reducing / superplasticising concrete admixture

## DESCRIPTION

**MasterRheobuild 601** is a high range, high performance superplasticiser and water reducing agent. **MasterRheobuild 601** disperses and deflocculates cement particles thereby increasing the workability and flowability of the concrete mixes.

## PRIMARY USES

**MasterRheobuild 601** is formulated for use by commercial ready-mix operators, who can benefit from its multiple role characteristics.

## TYPICAL APPLICATIONS

- In areas of congested reinforcement where high workability will ease placement and compaction.
- Hot weather concreting where extension of workability and controlled delays to initial set are beneficial.
- To effect reductions in the water cement ratio enabling either higher strength or cement economy.

## COMPOSITION

A multi-component admixture based upon high molecular weight polymers.

## ADVANTAGES

- Effective over high range of cement contents and types
- Improves pumpability, durability and impermeability
- Extended slump retention time - maintains workability in excess of concrete produced utilising conventional superplasticisers
- Reduces placing problems in hot weather by improved workability retention in conjunction with controlled setting times

## ACTION

**MasterRheobuild 601** acts on the cement particles by its powerful deflocculating and sequestering action to retard and maximise the hydration of the cement paste. Its powerful plasticising action results in high workability concrete which is responsive and cohesive. This action enables concrete with low or reduced water contents to be produced.

## PACKAGING

**MasterRheobuild 601** is available in bulk or in 210 litre drums.

## STANDARDS

ASTM C-494 Types F and G  
 EN 934-2 Tables 3.1, 3.2, 10.1 and 10.2

## TYPICAL PROPERTIES\*

Colour	dark brown liquid
Specific gravity	1.16 at 25°C
Chloride content	"chloride-free" to EN 934-2
Freezing point	0°C

## APPLICATION GUIDELINES

**MasterRheobuild 601** should be added to the concrete mix during the mixing cycle at the same time as the water. Never add **MasterRheobuild 601** to the dry cement.

## DOSAGE

The normal range is 0.8 to 2.5 litre per 100kg of total cementitious material. Higher dosages may be required when certain combinations of materials and conditions are present.

In all cases, trial mixes should be carried out to determine the optimum dosage required to achieve the desired concrete property.

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## COMPATIBILITY

**MasterRheobuild 601** can be used with all types of Portland cement including Sulphate Resisting and modified cement (Type II). For use with special cements, contact Technical Services Department.

**MasterRheobuild 601** is suitable for mixes containing:

- Microsilica (silica fume)
- Fly Ash (pulverized fuel ash)
- GGBS (ground granulated blast furnace slag)

**MasterRheobuild 601** should not be premixed with other admixtures. If other admixtures are to be used in the concrete containing **MasterRheobuild 601**, they must be dispensed separately. Contact Technical Services Department for further advice.

## DISPENSING

**MasterRheobuild 601** should be dispensed through a proprietary dispenser, such as is available from Master Builders Solutions. Details available upon request.

## HEALTH AND SAFETY

**MasterRheobuild 601** contains no hazardous substances requiring labelling. For further information, refer to material safety data sheet.

## STORAGE AND SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is up to 2 years when stored as above. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Technical Services Department.

## 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.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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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

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