

MasterRheobuild[®] 856

High range, water reducing superplasticiser for concretes containing GGBS and microsilica

DESCRIPTION

MasterRheobuild 856 is a ready-to-use, high range water-reducing admixture designed to produce high slump concrete with workability retaining properties. The product is chloride free.

TYPICAL APPLICATIONS

- Mixes containing GGBS and microsilica
- Mass concrete pours
- Ready mixed concrete
- 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 856 considerably improves the properties of fresh and hardened concrete.

PACKAGING

MasterRheobuild 856 is available in bulk or in 210 L drums.

STANDARDS

EN 934-2 Tables 11.1 and 11.2
 ASTM C-494 Type B, D and G

TYPICAL PROPERTIES*

Colour	Dark brown liquid
Specific gravity @ 25°C	1.240
Chloride content	"chloride-free" to EN 934
Freezing point	0°C

APPLICATION GUIDELINES

Optimum dosage of **MasterRheobuild 856** 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 L/100kg total cementitious material. In a high performance, low water cement ratio concrete, a dosage of between 1.5 - 2.5 L/100kg total cementitious material. Dependent upon mix requirement, it is possible to use a higher dosage of **MasterRheobuild 856** without causing any adverse effects upon the concrete. Please consult Master Builders Solutions Construction Chemicals Technical staff for further information.

MIXING

MasterRheobuild 856 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 856** to dry aggregate or cement is not recommended. Automatic dispensers are available.

MasterRheobuild 856 has been specifically developed for use in concretes modified with ground granulated blast furnace slag but is compatible with all other cement types and cementitious materials such as microsilica (Silica Fume) and Fly Ash (PFA).

MasterRheobuild 856 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.

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STORAGE AND SHELF LIFE

MasterRheobuild 856 must be stored where temperatures do not drop below +5°C. If the product has frozen thaw and agitate until completely reconstituted. Store under cover, out of direct sunlight and protect from extremes of temperature, the shelf life is 12 months.

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 856 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.

* Properties listed are based on laboratory controlled tests.

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NOTE

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Master Builders Solutions
Construction Chemicals LLC
P.O. Box 37127, Dubai, UAE
Tel: +971 4 8090800
www.master-builders-solutions.com/en-ae



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