

MasterRheobuild® 850

High range, water reducing superplasticiser for rheoplastic concretes.

MATERIAL DESCRIPTION

MasterRheobuild 850 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 850** is chloride free.

FIELDS OF APPLICATION

MasterRheobuild 850 considerably improves the properties of fresh and hardened concrete.

FEATURES AND BENEFITS

Used in

- 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

TYPICAL PROPERTIES*

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

Appearance	Dark brown liquid
Specific gravity	1.21 at 25°C
Chloride content	"chloride-free" to EN 934-2

DOSAGE

Optimum dosage of **MasterRheobuild 850** 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 850** without causing any adverse effects upon the concrete. Please consult MBS Technical staff for further information.

COMPATIBILITIES

MasterRheobuild 850 is compatible with all cements and most air entraining agents meeting the ASTM standards. The addition of **MasterRheobuild 850** and **MasterAir 100** (air entraining agent) to concrete is recommended where it is required to withstand freezing and thawing cycles.

PACKAGING

MasterRheobuild 850 is available in bulk or in 210 litre drums.

STANDARD

EN 934-2 Tables 3.1, 3.2, 11.1 and 11.2
ASTM C-494 Type A, B, D, F and G

MIXING

MasterRheobuild 850 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 850** to dry aggregate or cement is not recommended. Automatic dispensers are available.

STORAGE

MasterRheobuild 850 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 MBS's Technical Services Department.

HANDLING AND TRANSPORTATION

No special requirements must be observed during use. Protection gloves and glasses are however recommended. **MasterRheobuild 850** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

MasterRheobuild[®] 850

High range, water reducing superplasticiser for rheoplastic concretes.

SAFETY PRECAUTIONS

MasterRheobuild 850 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.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local MBS representative.

MBS reserves the right to have the true cause of any difficulty determined by accepted test methods.

* Properties listed are based on laboratory controlled tests.

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

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions 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

The technical information and application advice given in this MB Construction Chemicals Solutions Kenya Ltd 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.