

MasterRheobuild[®] 858C

High range, water reducing superplasticiser for rheoplastic concretes

DESCRIPTION

MasterRheobuild 858C 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 858C is chloride free.

TYPICAL APPLICATIONS

- 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 858C considerably improves the properties of fresh and hardened concrete.

PACKAGING

MasterRheobuild 858 is available in bulk or in 210 L 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 @ 25°C	1.245
Chloride content	"chloride-free" to EN 934
Freezing point	0°C

APPLICATION GUIDELINES

Optimum dosage of **MasterRheobuild 858C** 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 to 2.0 L/100kg cementitious material. In high performance micro silica concrete a dosage of between 1.5 to 2.5 L/100kg cementitious material. Dependent upon mix requirement, it is possible to use a higher dosage of **MasterRheobuild 858C** without causing any adverse effects upon the concrete. Please consult Master Builders Solutions Construction Chemicals Technical staff for further information.

MIXING

MasterRheobuild 858C is compatible with all cements and most air entraining agents meeting the ASTM standards. The addition of **MasterRheobuild 858C** and **MasterAir 100** (air entraining agent) to concrete is recommended where it is required to withstand freezing and thawing cycles.

DISPENSING

MasterRheobuild 858C 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 858C** to dry aggregate or cement is not recommended. Automatic dispensers are available.

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WORKABILITY

MasterRheobuild 858C 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 AND SHELF LIFE

MasterRheobuild 858C 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. The shelf life is 12 months 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 Master Builders Solutions Technical Services Department.

HEALTH AND SAFETY

MasterRheobuild 858C 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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STATEMENT OF RESPONSIBILITY

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NOTE

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