

MasterRheobuild® 859

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

DESCRIPTION OF PRODUCT

MasterRheobuild 859 is formulated from synthetic polymers specially designed to impart rheoplastic qualities to concrete, particularly those containing GGBS and microsilica.

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 w/c ratio as that of a low slump concrete (25mm) without admixture.

MasterRheobuild 859 is chloride-free.

ADVANTAGES

MasterRheobuild 859 considerably improves the properties of fresh and hardened concrete.

PRIMARY USES

- Mixes containing GGBS or microsilica
- Mass concrete pours
- Ready-mixed concrete
- Pumped concrete
- Casting in hot climates

TO OBTAIN

- High workability for longer periods
- Lower pumping pressure
- Delayed setting with longer workability
- Higher ultimate strengths
- Reduced permeability
- Improved durability

COMPATIBILITY

MasterRheobuild 859 has been specifically developed for use in concretes modified with ground granulated, blast furnace slag, but is compatible with all cement types.

PACKAGING

MasterRheobuild is available in 1000ltr bulk

TYPICAL PROPERTIES:

Colour:	Brown liquid
Specific gravity:	1.210 -1.250 at 25°C
Chloride content:	Nil to BS 5075 Part 1
Freezing point:	0°C
pH:	6-11

STANDARDS

ASTM C-494 Type A, B, D, F and G

DOSAGE

Optimum dosage of **MasterRheobuild 859** 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% and 2%; in high performance low w/c ratio concrete, a dosage of between 1.5 and 2.5%. Dependent upon mix requirement, it is possible to use a higher dosage of **MasterRheobuild 859** without causing any adverse effects upon the concrete. Please consult Master Builders Solutions 's Technical Services Department for further information.

DISPENSING

MasterRheobuild 859 is a ready-to-use liquid, which is dispensed into the concrete together with mixing water. The plasticising effect and water reduction are higher if the admixture is added to the concrete after 50-70% of the mixing water has been added. The addition of **MasterRheobuild 859** to dry aggregate or cement is not recommended. Automatic dispensers are available.

WORKABILITY

MasterRheobuild 859 ensures that rheoplastic concrete remains workable in excess of 3 hours at +20°C.

Workability loss is dependent on temperature, 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

MasterRheobuild 859 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 Master Builders Solutions 's Technical Services Department.

SHELF LIFE

Up to 24 months if stored according to manufacturer's instructions in unopened containers.

SAFETY PRECAUTIONS

MasterRheobuild 859 is not a fire or health hazard. countries-Group in many countries. 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 Master Builders Solutions representative.

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

QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

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