

MasterRheobuild[®] 856TZ

High range, water reducing superplasticiser for concretes containing GGBS

DESCRIPTION

MasterRheobuild 856TZ 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.

ADVANTAGES

MasterRheobuild 856TZ considerably improves the properties of fresh and hardened concrete.

PRIMARY USES

- Mixes containing GGBS and Micro Silica
- 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

COMPATIBILITY

MasterRheobuild 856TZ 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 Micro Silica (Silica Fume) and Fly Ash (PFA).

PACKAGING

MasterRheobuild 856TZ is available in bulk or in 210 litre drums.

TYPICAL PROPERTIES*

Colour:	Dark brown liquid
Specific gravity:	1.230 at 25°C
Chloride content:	"chloride-free" to EN 934-2
Freezing point:	0°C

STANDARDS

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

DOSAGE

Optimum dosage of **MasterRheobuild 856TZ** 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 0.8-1.6 litre / 100kg total cementitious material. In a high performance, low water cement ratio concrete, a dosage of between 1.4-2.2 litre / 100kg total cementitious material. Dependent upon mix requirement, it is possible to use a higher dosage of **MasterRheobuild 856TZ** without causing any adverse effects upon the concrete. Please consult BASF Construction Chemicals Technical staff for further information.

DISPENSING

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

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WORKABILITY

MasterRheobuild 856TZ 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

MasterRheobuild 856TZ 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.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult MBCC's Technical Services Department.

SAFETY PRECAUTIONS

MasterRheobuild 856TZ 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 MBCC representative.

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

QUALITY AND CARE

All products originating from MBCC's 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, ISO 14001 and OHSAS 18001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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

Field service where provided does not constitute supervisory responsibility. Suggestions made by MBCC either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MBCC, are responsible for carrying out procedures appropriate to a specific application.