

# MasterRheobuild<sup>®</sup> 858KW

High range, water reducing superplasticiser for rheoplastic concretes

## DESCRIPTION

**MasterRheobuild 858KW** 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 858KW** considerably improves the properties of fresh and hardened concrete.

## PRIMARY USES

- 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

## COMPATIBILITY

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

## PACKAGING

**MasterRheobuild 858KW** is available in bulk or in 210 litre drums.

## TYPICAL PROPERTIES\*

Colour	Dark brown
Specific gravity @ 25°C	1.270
Chloride content	"chloride-free" to EN 934
Freezing point	0°C
Flashpoint	N/A

## STANDARDS

ASTM C-494 Type A, B, D, F and G  
EN 934-2

## DOSAGE

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

## DISPENSING

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

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## WORKABILITY

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 858KW** 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 BASF's Technical Services Department.

## SAFETY PRECAUTIONS

**MasterRheobuild 858KW** 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 BASF representative.

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

## QUALITY AND CARE

All products originating from BASF'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 ISO 45001.

\* Properties listed are based on laboratory controlled tests.

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

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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 BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.