

MasterRheobuild® 1100

High range water-reducing superplasticizing admixture

MATERIAL DESCRIPTION

MasterRheobuild® 1100 is a ready-to-use, high range water-reducing agent designed to produce high slump concrete. This is a ready to use chloride free liquid admixture and meets ASTM C494 requirements for type F, and AS1478 requirements for High Range Water-Reducing Admixtures.

FEATURES AND BENEFITS

Very high workability	Short placement time. Saves time and labour.
High water reduction	High impermeability and strength. Improved durability.
Superior cohesion	No segregation even at high workability. Excellent concrete quality.
High early strength	Early demoulding. Shorter steam curing cycles.
Low shrinkage and creep	Better dimensional stability

RECOMMENDED FOR

- precast concrete
- all types of concrete mixes in which high early strength or high strength and very high flowability are essential
- ready-mixed concrete
- pumped concrete
- hot weather concreting

used with all cements and air-entraining admixtures approved under ASTM, AASHTO and CRD specifications.

COMPATIBILITY

MasterRheobuild® 1100 is compatible with both water reducers and air entraining agents approved under SAA, SANZ and ASTM specifications but it should be dispensed separately into the concrete mix. It should only be used with water reducers after specific testing at the proposed dose rates.

DISPENSING

The addition of **Master Rheobuild® 1100** to a dry mix is not recommended.

APPLICATION

Use **Master Rheobuild® 1100** as supplied after thorough stirring, without any dilution.

Material condition

Cement : For optimum performance, always use fresh cement, since the reactivity of cement is reduced with ageing.

Aggregates : Use of properly graded, good quality, coarse aggregates and sand helps to achieve higher impermeability and strength.

Dispensing

The addition of **Master Rheobuild® 1100** to a dry mix is not recommended.

Master Rheobuild® 1100 can be dosed either at the batching plant or at the placing site.

At the batching plant, introduce **Master Rheobuild® 1100** at the specified dosage directly into the mixer through a dispenser along with mixing water, when the concrete is thoroughly wetted (i.e. after adding at least 75% of the mixing water) and mix for at least 3 minutes. If added at the placing site, mix for at least 3 minutes after the addition.

DOSAGE

MasterRheobuild® 1100 is normally used at a rate of 0.5 – 2.0 litres per 100 kg of cementitious. Other dosages may also be used depending on the mix design of the concrete and ambient conditions. The actual dosage depends on the degree of water reduction or flow required.

RATE OF HARDENING

Setting time is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete and climatic condition. Trial mixes should be made with job materials to determine the optimum dosage required for a specified setting time and a given strength requirement.

PACKAGING

Master Rheobuild® 1100 is supplied in 205 litre sealed drums, IBC 1,000 L and bulk delivery.

STORAGE

Master Rheobuild® 1100 must be stored at temperature above 0°C in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

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SHELF LIFE

MasterRheobuild® 1100 can be stored for 12 months if stored as recommended in unopened original packing.

PRECAUTIONS

Health: **Master Rheobuild® 1100** does not contain any hazardous substances requiring labelling. It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For additional information on **Master Rheobuild® 1100** and its use in developing a concrete mix with special performance characteristics, contact your local Master Builders Solutions representatives.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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 Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

PT Master Builders Solutions Indonesia

Jl. Jababeka V Blok I No 1, Kawasan Industrial Estate
Jababeka 1, Pasirgombong, West Cikarang,
Bekasi, West Java 17530
www.master-builders-solutions.com/en-id