

MasterRheobuild[®] 727

A superplasticising admixture to produce Rheoplastic concrete

DESCRIPTION

MasterRheobuild 727 is a chloride free, ready-to-use, liquid admixture comprised of 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 segregating, and having the same water/cement ratio as that of a no-slump concrete without additive.

MasterRheobuild 727 has been formulated to meet the requirements of ASTM C494 admixtures. It is compatible with all cements meeting recognised international standards.

FIELD OF APPLICATION

- Used with all cements and admixtures meeting international specifications
- Pumped concrete
- Readymixed concrete
- Hot weather concreting

FEATURES AND BENEFITS

- High workability for short placement time, as well as saves time and labour
- High water reduction to produce high impermeability and strength; improves durability
- Superior cohesion with no segregation even at high workability. Excellent concrete quality
- Low shrinkage and creep for better dimensional stability

TYPICAL PERFORMANCE DATA

Workability: **MasterRheobuild 727** ensures that the rheoplastic concrete remains workable for up to 2 hours at 20°C. The precise duration of workability depends not only on temperature, but also on the type of cement, the nature of aggregates and mode of transportation.

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 conditions. Trial mixes should be made with job materials to determine the optimum dosage required for a specified setting time and a given strength requirement.

APPLICATION

MasterRheobuild 727 provides optimal benefits when all the materials have been batched and mixed.

Dispensing

The addition of **MasterRheobuild 727** into a dry mix is not recommended.

MasterRheobuild 727 can be dosed either at the batching plant or at the placing site.

At the batching plant, introduce **MasterRheobuild 727** 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 2 minutes.

If added at the placing site, mix for at least 2 minutes after the addition.

DOSAGE

Dosage of **MasterRheobuild 727** depends upon the mix design, the ambient conditions and the degree of water reduction and workability required. Typical dosage used is 0.8 – 1.5 litres per 100kg of cementitious materials. Other dosages may also be used depending on the mix design and ambient conditions.

PACKAGING

MasterRheobuild 727 is available in bulk and 205L drums.

SHELF LIFE

MasterRheobuild 727 can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

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PRECAUTIONS

Health: MasterRheobuild 727 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 detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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STATEMENT OF RESPONSIBILITY

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

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