

MasterRheobuild® 1100 PX

(Formerly known as Rheobuild® 1100 PX)

A high range water reducing superplasticiser admixture for the production of high slump concrete. Supplied as a powder.

DESCRIPTION

The basic component of **MasterRheobuild® 1100 PX** powder is synthetic polymers. These polymers will allow mixing water to be reduced considerably and concrete strength to be enhanced significantly, particularly at early ages. **MasterRheobuild® 1100 PX** powder is a chloride free product.

MasterRheobuild® 1100 PX powder has to be dissolved in water to produce RHEOBUILD 1100PX liquid prior to use.

PRIMARY USES

- Production of high slump concrete
- Precast concrete
- Low water cement ratio concrete
- In complicated formwork or with congested reinforcement
- Improving strengths in manufactured concrete products
- Re-tempering of concrete at site

ADVANTAGES

MasterRheobuild® 1100 PX liquid allows the production of high slump flowable concrete, with a low water/cement ratio.

Concrete with **MasterRheobuild® 1100 PX** liquid shows strengths higher than concrete without admixture having the same workability. The increase in strength, especially evident at early ages remains at later ages, both in air cured and steam cured processes.

Initial and final sets do not change significantly with respect to concrete without admixture. Therefore whenever longer transport and finishing times are needed the use of a retarding BASF superplasticiser, or the use of **MasterRheobuild® 1100 PX** liquid in conjunction with **MasterRoc® HCA 10** should be considered.

COMPATIBILITY

MasterRheobuild® 1100 PX liquid is compatible with all cements and admixtures meeting the ASTM standards.

The use of **MasterRheobuild® 1100 PX** liquid and **MasterAir® 100** air entraining agent is recommended whenever concrete is required to withstand freeze / thaw cycles.

DISSOLVING POWDER

MasterRheobuild® 1100 PX powder in water:

Ensure that water is clean ideally potable and free of chlorides and other contaminants. To dissolve quantities in a small scale use a clean, open top 210 litre container. The container should be made of plastic or stainless steel or coated steel.

To produce 200 litres of 40% solution, first pour 140 litres of water into a container and slowly add 100 kg of **MasterRheobuild® 1100 PX** powder whilst stirring. If larger amounts are to be dissolved, the use of a mechanical slow speed stirrer is recommended.

Stir until the powder is fully dissolved. **MasterRheobuild® 1100 PX** dissolves very rapidly, however if lumps do form continue stirring and reduce the speed of addition of the powder.

PACKAGING

25 kg bag

STANDARDS

ASTM C494 Types A and F

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DOSAGE

MasterRheobuild® 1100 PX liquid is normally dispensed at a rate of 0.60 litres to 1.50 litres per 100 kg of cementitious material. Other dosages may be used, depending on the materials or conditions.

DIRECTIONS FOR USE

MasterRheobuild® 1100 PX powder must not be added directly to concrete.

MasterRheobuild® 1100 PX liquid should be added to the mix with the gauging water. No extension in mixing time is necessary. Never add **MasterRheobuild® 1100 PX** liquid to dry cement.

Alternatively, when using **MasterRheobuild® 1100 PX** liquid to produce high slump flowing concrete at site (re-tempering) using ready mix trucks, it can be added to the concrete via the feed hopper at the rear of the truck. Mix before discharge for 3 minutes at 10rpm to produce a fully homogeneous mix.

When using **MasterRheobuild® 1100 PX** liquid to obtain very high early strengths, advantage must be taken of the admixture water reducing properties.

EFFECTS OF OVERDOSING

A severe over dosage of **MasterRheobuild® 1100 PX** liquid will result in the following:

- Retardation of initial and final set
- Slight increase in air entrainment
- Increase in workability

STORAGE

MasterRheobuild® 1100 PX powder should be stored off the ground, and away from moisture. Under these conditions the material will have a shelf life of 1 year.

MasterRheobuild® 1100 PX liquid, should be stored in a closed container, drum or tank and used within 28 days of the **MasterRheobuild® 1100 PX** powder being dissolved.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with the eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

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 Construction Chemicals South Africa are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, 2008.

* 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 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.

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