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# MasterRheobuild 375

## Water reducing/plasticising admixture for concrete - EN 934-2: T2

## DESCRIPTION

MasterRheobuild 375 is a powerful plasticizer based on lignosulphonate which disperses and deflocculates the cement particles within a concrete mix. It can be used to improve workability, without the addition of extra water, or to allow reductions in the free water content of the concrete mix. MasterRheobuild 375 also complies with:

- ASTM C-494 Type A & D
- WRC Approved - for contact with Potable Water

## FIELDS OF APPLICATION

- To increase/extend workability.
- To increase compressive strength.
- To effect cement economies.
- Wide dosage range enabling water reductions to produce a dense concrete with reduced permeability and reduced water penetration.
- In areas of congested reinforcement where high workability is of benefit.
- Wherever reduced water contents would be of benefit.
- In hot weather to extend workability.

## FEATURES AND BENEFITS

MasterRheobuild 375 offers the following benefits:

- Significantly improves the workability of a concrete therefore reducing placing time.
- Improves the cohesive properties of the concrete helping to reduce segregation and bleed.
- Allows water reduction to be achieved whilst maintaining workability, thereby increasing strength, durability and impermeability.
- Enables economies in mix designs to be achieved.
- Improves strengths in mixes containing PFA / GGBFS and micro silica blends.

## DOSAGE

Field trials should be conducted to determine the optimum addition rates of MasterRheobuild 375. As a starting point, the following dosage range is recommended.

- *By Volume* - 0.17 to 0.51 litres per 100 kg of cement (binder).
- *By Mass* - 0.20 to 0.60 kg per 100 kg of cement (binder).

The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilised in special cases according to specific job conditions. If required consult BASF Construction Chemicals Technical Services Department for advice. Trial mixes should be carried out to ensure optimum dosage and effect. Where the concrete is to be machine finished by utilising power float or power trowelling methods, we recommend that you contact the Technical Services Department for dosage rate guidance.

## DISPENSING

MasterRheobuild 375 should be dispensed through a proprietary dispenser. Details are available on request from our Technical Services Department.

## EFFECTS OF OVERDOSING

A severe over dosage of MasterRheobuild 375 may result in the following: -

- Retardation of initial set.
- Increase in air entrainment.
- Increase in workability.

Providing concrete is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete.

## COMPATIBILITY

MasterRheobuild 375 can be used with all types of EN 197 Cements. For use with other special cements, contact our Technical Services Department.

MasterRheobuild 375 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterRheobuild 375 they must be dispensed separately.



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### PACKAGING

MasterRheobuild 375 is supplied in Bulk, 1000-litre IBC's and 25-litre containers.

### CONTACT DETAILS

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| Product Data | |
|---|---|
| Appearance: | Brown liquid |
| Specific gravity @ 20°C: | 1.18 ± 0.03 g/cm³ |
| pH-value: | 5.0 ± 1 |
| Alkali content (%): | ≤ 1.00 by mass |
| Chloride content (%): | ≤ 0.10 by mass |
| Corrosion behaviour: | Contains only components according to BS EN 934-1:2008, Annex A.1 |
| Air Content: | ≤ Reference mix + 2.0% |
| Water reduction: | ≥ 5% of Reference mix |
| Compressive strength - 7 day: | ≥ 110% of Reference mix |
| Compressive strength - 28 day: | ≥ 110% of Reference mix |
| Durability: | NPD |
| Dangerous substances: | NPD |
| **Logistics** | |
| Shelf life: | 12 months if stored according to manufacturer's instructions in unopened container. |
| Storage conditions: | Store in original sealed containers and at temperatures between 5°C and 30°C. 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. |
| Handling and transportation: | Refer to MasterRheobuild 375 Safety Data Sheet |
| Disposal: | Refer to MasterRheobuild 375 Safety Data Sheet |

CE

**Certificate No. 0086-CPD-469071**
**EN 934-2: T2**
Declaration of Performance can be found at www.master-builders-solutions.basf.co.uk



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**Health and Safety**
*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

**Spillage**
Chemical products can cause damage; clean spillage immediately.

**DISCLAIMER**
"BASF plc, Construction Chemicals" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.



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