

RHEOBUILD® 602

High range water reducing / superplasticising concrete admixture

Description

RHEOBUILD® 602 is a high range, high performance superplasticiser and water reducing agent. RHEOBUILD® 602 disperses and deflocculates cement particles thereby increasing the workability and flowability of the concrete mixes.

Primary uses

RHEOBUILD® 602 is formulated for use by commercial ready-mix operators, who can benefit from its multiple role characteristics.

Typical applications

- In areas of congested reinforcement where high workability will ease placement and compaction.
- Hot weather concreting where extension of workability and controlled delays to initial set are beneficial.
- To effect reductions in the water cement ratio enabling either higher strength or cement economy.

Composition

A multi-component admixture based upon high molecular weight polymers and refined lignosulphonates.

Advantages

- Effective over high range of cement contents and types.
- Improves pumpability, durability and impermeability.
- Extended slump retention time - maintains workability in excess of concrete produced utilising conventional superplasticisers

- Reduces placing problems in hot weather by improved workability retention in conjunction with controlled setting times.

Action

RHEOBUILD® 602 acts on the cement particles by its powerful deflocculating and sequestering action to retard and maximise the hydration of the cement paste. Its powerful plasticising action results in high workability concrete which is responsive and cohesive. This action enables concrete with low or reduced water contents to be produced.

Packaging

RHEOBUILD® 602 is available in bulk or in 210 litre drums.

*Typical properties

Colour	dark brown liquid
Specific gravity	1.230 at 25°C
Chloride content	"chloride-free" to EN 934-2
Nitrate content	Nil
Freezing point	0°C

Standards

ASTM C-494 Types A, B, D, F and G
EN 934-2 Tables 3.2, 11.1 and 11.2

Directions for use

RHEOBUILD® 602 should be added to the concrete mix during the mixing cycle at the same time as the water. Never add RHEOBUILD® 602 to the dry cement.

RHEOBUILD[®] 602

Dosage

The normal range is 0.8-2.0 litre per 100kg cementitious. High performance concrete 1.5-2.5 litres per 100kg cementitious. Higher dosages may be required when certain combinations of materials and conditions are present or water reduction in excess of 15% is required, please contact our technical services department.

In all cases, trial mixes should be carried out to determine the optimum dosage required to achieve the desired concrete property.

Compatibility

RHEOBUILD[®] 602 can be used with all types of Portland cement including Sulphate Resisting and modified cement (Type II). For use with special cements, contact BASF's Technical Services Department.

RHEOBUILD[®] 602 is suitable for mixes containing:

- microsilica
- pulverised fuel ash
- ground granulated blast furnace slag cement

RHEOBUILD[®] 602 should not be premixed with other admixtures. If other admixtures are to be used in the concrete containing RHEOBUILD[®] 602, they must be dispensed separately. Contact BASF's Technical Services Department for further advice.

Dispensing

RHEOBUILD[®] 602 should be dispensed through a proprietary dispenser, such as is available from BASF. Details available upon request.

Safety precautions

RHEOBUILD[®] 602 contains no hazardous substances requiring labelling. For further information, refer to material safety data sheet.

Storage

Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is up to 2 years when stored as above. 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.

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 OHSAS 18001.

11/2007 BASF_CC-UAE revised 09/2009

* Properties listed are based on laboratory controlled tests.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

BASF Construction Chemicals UAE LLC

P.O. Box 37127, Dubai, UAE

Tel: +971 4 8090800

www.basf-cc.ae

Fax: +971 4 8851002

e-mail: marketingcc.mideast@basf.com



Certificate No.
963680



Certificate No.
945787



Certificate No.
772556