

RHEOBUILD[®] 600UN

High range water-reducing admixture in liquid form for workability retaining superplasticised concrete

Description

RHEOBUILD 600 UN is a ready-to-use, high range water-reducing admixture designed to produce high slump concrete with workability retaining properties. The product is chloride free.

Primary uses

Use in concrete where delayed setting and extended workability are desired.

Mass-concrete pours.

Ready-mixed concrete.

Long distance transportation of concrete.

Pumped concrete.

Hot weather concreting.

Advantages

- Superplasticising effect in high slump applications.
- Dramatic reduction in water requirement at equal slump.
- Improved workability at equal water content compared to a non-treated mix.
- Excellent slump retention.
- Reduced cracking.
- Reduced permeability.
- Increased durability.
- Increased compressive and flexural strength.

RHEOBUILD 600 UN has been incorporated in concrete used for :

- All types of high rise construction
- Pre-stressed beams
- Foundation piles
- Storage tanks
- Purification structures

- Diaphragm walls
- Jetties, wharves
- Heavily reinforced structures
- Bank vaults
- Silos
- Towers and chimneys

Tunnel linings

- Irrigation canals
- Weirs and tunnels in hydro-electric structures
- Airfield runways and roads

Packaging

RHEOBUILD 600 UN is available in 210 litre drums or in bulk.

Standards

ASTM C494 Type D & G and BS 5075 requirements for high range water-reducing admixtures.

Dosage

RHEOBUILD 600 UN can be used at a rate of 0.5-1.5 litre/100kg of cement.

Other dosages may also be used depending on the specific working conditions.

Dosage

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



The Chemical Company

RHEOBUILD[®] 600UN

Dispensing

RHEOBUILD 600 UN is introduced into the mixer together with the mixing water. The plasticising effect or water reduction is higher if the admixture is added to the damp concrete after 50-70% of the water has been added. The addition of RHEOBUILD 600 UN to dry aggregate or cement is not recommended, as it lowers the plasticising effect and water reduction capacity.

Mixing

RHEOBUILD 600 UN, in tightly closed original containers, has a shelf life of at least 2 years. The temperature of the storage place may not drop below +5°C, nor exceed +50°C. It is recommended that your local BASF Construction Chemicals representative be consulted prior to the use of any products that were frozen.

Safety precautions

RHEOBUILD 600 UN contains no hazardous substances requiring labelling. For further information refer to the Material Safety Data Sheet.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals representative.

BASF Construction Chemicals 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' 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.

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

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