



The Chemical Company

RHEOBUILD[®] 650

High range, water reducing superplasticiser for rheoplastic concrete

Description

RHEOBUILD 650 is a high range superplasticising admixture designed specifically for the production of rheoplastic concrete. Unlike conventional superplasticisers RHEOBUILD 650 possesses the ability to retain workability for extended periods even in high temperatures.

Primary uses

- Readymixed concrete.
- Low water / cement ratio and high strength concrete. Microsilica concrete
- High workability for longer periods.
- Casting in hot climates.

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.
- Enables Rheoplastic, workable microsilica concrete.
- Chloride-free, suitable for use with reinforced concrete.

Packaging

RHEOBUILD 650 is available in bulk or in 210 Ltr drums.

Compatibility

RHEOBUILD 650 can be used with all types of Portland cement. For use with special cements, contact BASF's Technical Services Department.

RHEOBUILD 650 should not be premixed with other admixtures. If other admixtures are to be used in the concrete containing RHEOBUILD 650, they must be dispensed separately. Contact BASF's Technical Services Department for further advice.

Standards

BS 50 75 Part 1
ASTM C494 Types D & G

Dosage

RHEOBUILD 650 is normally dispensed at a rate of 0.6-2.4 litres per 100kg of cement depending on water reduction percent. Other dosages may be required depending on the specific working conditions and mix design. In particular higher dosages can be required to maintain longer workability, especially in hot climates.

Dispensing

RHEOBUILD 650 is a ready to use liquid which is dispensed into the concrete together with the mixing water.

The plasticising effect and water reduction are higher if the admixture is added to the concrete after 70% of the mixing water has been added. The addition of RHEOBUILD 650 to dry aggregate or cement is not recommended.

Effects of over dosage

- Increased workability
- Retardation of initial and final set.
- Increased air entrainment

Providing the concrete is correctly placed and cured the ultimate compressive strength will not be adversely affected. The effects of over dosage are increased in sulphate resisting cement (type V).

Storage

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

Safety Precautions

RHEOBUILD 650 contains no hazardous substances requiring labeling. For Further **information**, refer to material safety data sheet.



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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 Statement

This statement is made under condition that the material and usage thereof conform to the terms of our published literature and recognized good workmanship

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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.

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