



The Chemical Company

RHEOBUILD® 561M

High range, water reducing superplasticiser for rheoplastic concretes

Description

RHEOBUILD 561M is formulated from synthetic polymers specially designed to impart rheoplastic qualities to concrete.

A rheoplastic concrete is a fluid concrete with a slump of at least 200mm, easily flowing, but at the same time free from segregation and having the same water/cement ratio as that of a low slump concrete (25 mm) without admixture. RHEOBUILD 561M is chloride free.

Advantages

RHEOBUILD 561M considerably improves the properties of fresh and hardened concrete.

Primary uses

- Microsilica concrete
- Mass concrete pours
- Ready mixed concrete
- Long-distance transport
- Pumped concrete
- Casting in hot climates

To obtain:

- Reduced thermal peaks
- High workability for longer periods
- Lower pumping pressure
- Delayed setting with longer workability
- Higher ultimate strengths.
- Reduced permeability
- Improved durability

Compatibility

RHEOBUILD 561M is compatible with all cements and most air entraining agents meeting the ASTM standards. The addition of RHEOBUILD 561M and MICRO-AIR 100 (air entraining agent) to concrete is recommended where it is required to withstand freezing and thawing cycles.

Packaging

RHEOBUILD 561M is available in bulk or in 210 litre drums.

Standards

ASTM C-494 Type B, D and G
BS 5075 Part 1 and 3

Dosage

RHEOBUILD 561M is normally dispensed at a rate of 0.8-1.2 litres per 100kg of cement. 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 561M 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 50 to 70% of the mixing water has been added. The addition of RHEOBUILD 561M to dry aggregate or cement is not recommended. Automatic dispensers are available.

Workability

RHEOBUILD 561M ensures that rheoplastic concrete remains workable in excess 3 hours at +20°C. Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot and dry climates.

Storage

RHEOBUILD 561M must be stored where temperatures do not drop below +5°C. If product has frozen thaw and agitate until completely reconstituted. 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. For specific storage advice consult BASF's Technical Services Department.

Adding Value to Concrete



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Safety precautions

RHEOBUILD 561M is not a fire or health hazard. Spillages should be washed down immediately with cold water. 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 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.

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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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