

RHEOBUILD® 855

High range, water reducing superplasticiser for rheoplastic concretes

Description

RHEOBUILD® 855 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 200 mm, easily flowing, but at the same time free from segregation and having the same water/cement ratio as that of a low slump concrete (25mm) without admixture. RHEOBUILD® 855 is chloride free.

Advantages

RHEOBUILD® 855 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® 855 is compatible with all cements and most air entraining agents meeting the ASTM standards.

Packaging

RHEOBUILD® 855 is available in bulk or in 210 litre drums.

Standards

EN 934-2 Tables 3.1, 3.2, 11.1 and 11.2
ASTM C-494 Type A, B, D, F and G

Dosage

Optimum dosage of RHEOBUILD® 855 should be determined in trial mixes. As a guide the following dosages are recommended as a starting point for any trial. Dependent upon mix requirements the typical dosage range of RHEOBUILD® 855 is between 0.8-2.5 litre / 100kg total cementitious material. Higher dosages maybe possible based on local materials, without causing any adverse effects upon the concrete. Please consult BASF Construction Chemicals UAE LLC Technical staff for further information.

Dispensing

RHEOBUILD® 855 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® 855 to dry aggregate or cement is not recommended. Automatic dispensers are available.

Workability

RHEOBUILD® 855 ensures that rheoplastic concrete remains workable in excess 2 hours at +20°C.



The Chemical Company

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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[®] 855 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.

Safety precautions

RHEOBUILD[®] 855 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.

05/2000 BASF_CC-UAE revised 11/2011

* Properties listed are based on laboratory controlled tests.

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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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