

RHEOBUILD[®] 805

High range, water reducing superplasticiser

Description

RHEOBUILD 805 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 805 is chloride free.

Advantages

RHEOBUILD 805 considerably improves the properties of fresh and hardened concrete.

Primary uses

- Mixes containing GGBS
- Mass concrete pours
- Ready mixed concrete
- 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

Packaging

RHEOBUILD 805 is available in bulk or in 210 litre drums.

Compatibility

RHEOBUILD 805 has been specifically developed for use in concretes with all cement types.

*Typical properties

Colour:	Brown liquid
Specific gravity typically:	1.230 at 25°C
Chloride content:	Nil to BS 5075 Part 1
Freezing point:	0°C
Flashpoint:	N/A

Standards

ASTM C-494 Type B, D and G

Dosage

Optimum dosage of RHEOBUILD 805 should be determined in trial mixes. As a guide, the following dosages are recommended as a starting point for any trial. In normal concrete a dosage of between 0.8-2.0 litre / 100kg total cementitious material. In a high performance, low water cement ratio concrete, a dosage of between 1.5-2.5 litre / 100kg total cementitious material. Dependent upon mix requirement, it is possible to use a higher dosage of RHEOBUILD 805 without causing any adverse effects upon the concrete. Please consult BASF Technical staff for further information.

Dispensing

RHEOBUILD 805 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 805 to Dry aggregate or cement is not recommended. Automatic dispensers are available.

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Workability

RHEOBUILD 805 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 805 must be stored where temperatures do not drop below +5°C. If the 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 Construction Chemicals UAE Technical Services Department.

Safety precautions

RHEOBUILD 805 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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* Properties listed are based on laboratory controlled tests.

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