The Chemical Company

RHEOBUILD® 880

High range, water-reducing superplasticiser for rheoplastic concretes

Description of Product
RHEOBUILD 880 is formulated from synthetic polymers specially designed to impart rheoplastic qualities to concrete.

A rheoplastic concrete is a fluid concrete, easily flowing, but at the same time free from segregation and bleeding having the same w/c ratio as that of a low slump concrete without admixture. RHEOBUILD 880 is chloride-free.

Advantages
RHEOBUILD 880 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 880 is compatible with all cements and most air-entraining agents meeting the ASTM standards. The addition of RHEOBUILD 880 and MICRO-AIR 111 (air-entraining agent) to concrete is recommended where it is required to withstand freezing and thawing cycles.

Packaging
RHEOBUILD 880 is available in 25ltr pails, 210ltr drums or 1000ltr bulk.

Typical Properties

Colour:	Dark brown liquid
Specific gravity:	1.2
Air-entrainment:	Maximum 1%
Chloride content:	Nil to BS 5075
Nitrate content:	Nil
Freezing point:	0℃; can be reconstituted if stirred after thawing

Standards
ASTM C 494 Type A and F
BS 5075 Part 1 and 3

Dosage
Optimum dosage of RHEOBUILD 880 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 0.6-2.5ltr/100kg of cement.

In high performance microsilica concrete a dosage of between 1.5-3ltr/100kg of cement. Dependent upon mix requirement, it is possible to use a higher dosage of RHEOBUILD 880 without causing any adverse effects upon the concrete. Please consult BASF's Technical Services Department for further information.

Dispensing
RHEOBUILD 880 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 880 to dry aggregate or cement is not recommended. Automatic dispensers are available.

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Workability
RHEOBUILD 880 ensures that rheoplastic concrete remains workable in excess 2 hours at +20℃.

Workability loss is dependent on temperature, 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 880 must be stored where temperatures do not drop below +5℃. 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.

Shelf Life
Up to 24 months if stored according to manufacturer's instructions in unopened containers.

Safety Precautions
RHEOBUILD 880 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 Statement
All products manufactured by BASF Egypt, or imported from BASF affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2000, ISO 14001:2004 & OHSAS 18001:1999 standards.

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* Properties listed are only for guidance and are not a guarantee of performance.

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