

RHEOBUILD[®] 840

High range, water-reducing superplasticiser for rheoplastic concretes

Description of Product

RHEOBUILD 840 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, with a slight set retarding effect for producing free-flowing concrete in hot climates. Also, it provides a substantial water reduction effect for promoting high, early and ultimate strengths. RHEOBUILD 840 is chloride-free.

Advantages

RHEOBUILD 840 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 840 is compatible with all cements and most air-entraining agents meeting the ASTM standards. The addition of RHEOBUILD 840 and MICRO-AIR 111 (air-entraining agent) to concrete is recommended where it is required to withstand freezing and thawing cycles.

Typical Properties

Colour :	Dark brown liquid
Specific gravity:	1.200 ± 0.005
Chloride content:	Nil to BS 5075
Nitrate content:	Nil
Freezing point:	0°C
Flashpoint:	N/A

Packaging

RHEOBUILD 840 is available in 25ltr pails, 210ltr drums and 1000ltr bulk.

Standards

ASTM C 494 Type D and G
BS 5075 Part 3

Dosage

Optimum dosage of RHEOBUILD 840 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 0.5-1.3ltr/100kg of cement. Please consult BASF's Technical Services Department for further information.

Dispensing

RHEOBUILD 840 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 840 to dry aggregate or cement is not recommended. Automatic dispensers are available.

Workability

RHEOBUILD 840 ensures that rheoplastic concrete remains workable in excess 2 hours at +20°C. Workability loss is dependent on temperature, the type of cement, nature of aggregates, method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot, dry climates and windy conditions.



The Chemical Company

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Storage

RHEOBUILD 840 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.

Shelf Life

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

Safety Precautions

RHEOBUILD 840 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.

BASF-CC, Egypt
55, St. 18, Maadi Sarayat
11431 Cairo, Egypt
Factory: Sadat City, Piece 118
Zone 4

Tel.: +2 012 393 98 44
Tel.: +2 012 398 67 78
Tel.: +2 012 390 22 35
Tel.: +2048 2604842
Fax: +2048 2604757

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e-mail: enquire.egypt@basf.com, website: www.basf-cc.com.eg

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