

RHEOBUILD[®] 1113

High range, water-reducing, superplasticising admixture for the production of rheoplastic concrete

Description of the Product

RHEOBUILD 1113 is formulated from synthetic polymers specially designed to produce rheoplastic concrete.

RHEOBUILD 1113 allows mixing water to be reduced considerably and concrete strength to be enhanced significantly, particularly at early ages.

RHEOBUILD 1113 is a chloride-free product.

Primary Uses

- Production of rheoplastic self-compacting concrete
- Pre-cast concrete where high early and ultimate strength is required
- Low w/c ratio concrete
- In complicated formwork or with congested reinforcement

Advantages

RHEOBUILD 1113 allows the production of very flowable concrete, with a low w/c ratio. Concrete with RHEOBUILD 1113 shows strengths higher than concrete without admixture having the same workability. The increase in strength, especially evident at early ages remains at later ages, both in air-cured and steam-cured processes. Initial and final sets do not change significantly with respect to concrete without admixture. Therefore, whenever longer transport and finishing times are needed, the use of retarding superplasticisers, such as RHEOBUILD 561E or RHEOBUILD 850, is recommended.

Due to the reduction in the w/c ratio, all other properties of hardened concrete are improved significantly, namely; lowered permeability, shrinkage and creep, increased workability and modulus of elasticity.

For more detailed information on the influence of superplasticisers on hardened concrete

properties, consult your local BASF representative.

Compatibility

RHEOBUILD 1113 is compatible with all cements and admixtures meeting ASTM standards.

Packaging

RHEOBUILD 1113 is available in 25ltr, 210ltr drum and 1000ltr tanks.

Typical Properties

Colour:	Brown liquid
Specific gravity:	1.20 ± 0.005 at 25°C
Air entrainment:	Maximum 1%
Chloride content:	Nil to BS 5075
Nitrate content:	Nil
Freezing point:	0°C; can be reconstituted if stirred after thawing

Standards

ASTM C-494 Types A and F

BS 5075 Part 1 and 3

Dosage

RHEOBUILD 1113 is normally dispensed depending on the desired plasticising or water-reducing effect at a rate of 0.3–2.0ltr/100kg of cement.

Dependent upon mix requirement, it is possible to use a higher dosage of RHEOBUILD 1113 without causing any adverse effects upon the concrete. Please consult BASF's Technical Services Department for further information.

Directions for Use

RHEOBUILD 1113 should be added to the mix with the gauging water.

No extension to the mixing time is necessary. Never add RHEOBUILD 1113 to dry cement.

Alternatively, when using RHEOBUILD 1113 to produce flowing concrete at site using ready-mix trucks, it can be added to the concrete via the feed hopper at the rear of the truck. Mix before

Adding Value to Concrete



The Chemical Company

RHEOBUILD[®] 1113

discharge for 3 minutes at 10rpm to produce a fully homogenous mix.

When using RHEOBUILD 1113 to obtain very high early strengths, advantage must be taken of its water-reducing properties.

Effects of Over Dosage

A severe over-dosage of RHEOBUILD 1113 will result in the following:

- Retardation of initial and final set
- Slight increase in air-entrainment
- Increase in workability

Dispensing

RHEOBUILD 1113 is introduced into the mixer together with mixing water. The plasticising effect, or water reduction, is higher if the admixture is added to the concrete after 50-70% of the mixing water has been added. The addition of RHEOBUILD 1113 to dry aggregate or cement is not recommended

Storage

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 1113 contains no hazardous substances requiring labelling. 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 worldwide, 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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