



The Chemical Company

RHEOBUILD[®] 1038

High range water-reducing superplasticising admixture

DESCRIPTION

RHEOBUILD 1038 is a superplasticising, high range, water reducing admixture formulated to produce rheoplastic concrete.

Rheoplastic concrete is fluid concrete with a slump value 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 non-slump concrete (25 mm) without additive. The slump retention characteristics of rheoplastic concrete permit the addition of **RHEOBUILD 1038** at the batch plant.

RHEOBUILD 1038 is compatible with both water reducers and air entraining agents approved under SAA and ASTM specifications.

This ready to use chloride free liquid admixture meets ASTM C494 requirements for Type G Admixtures and AS1478 requirements for type HWRRe.

FIELDS OF APPLICATION

- All types of premixed concrete where high water reduction or flowing properties are required.
- Reinforced and prestressed concrete beams.
- Foundation rafts.
- Storage tanks.
- Purification plants.
- Underwater structures.
- Diaphragm walls.
- Jetties, wharves.
- Highly reinforced structures.
- Bank vaults.
- Silos.
- Towers and chimneys.
- Tunnel linings.
- Irrigation canals.
- Weirs and tunnels in hydro-electric structures.
- Airfield runways and road.

FEATURES AND BENEFITS

RHEOBUILD 1038 considerably improves the properties of fresh and hardened concrete

- high reliability
- high early and ultimate strengths
- impermeability
- durability
- dimensional stability
- high elastic modulus
- low shrinkage and creep

APPLICATION

Dispensing

RHEOBUILD 1038 can be added at the batch plant or on site. When adding at bath plant, delay addition until cement has been thoroughly wetted and at least 75% of water added. When introduced on site, mix for further 2 minutes after addition.

When used in concrete it should be dispensed separately into the concrete mix. Should only be used in conjunction with water reducing admixture after specific test information is available at the dose rates proposed. Otherwise extended retardation could result.

RHEOBUILD 1038 can maintain the workability of fresh concrete for 1-2 hours at 20°C. The precise workability duration depend on temperature, types of cement and aggregates, transport and dosages of admixture. Higher dosage provide longer duration of workability of fresh concrete.

DOSAGE

RHEOBUILD 1038 is normally dosed at 0.5 - 2.0 L per 100 kg of cement. Other dosages may be used depending on the mix design of the concrete and ambient conditions. The actual dose depends on the degree of water reduction of flow required.

Setting time is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete and climatic conditions. Trial mix should be made with job material to determine the optimum dosage required for a specific setting time and a given strength requirement.

PACKAGING

RHEOBUILD 1038 is supplied in 205 L sealed drums and bulk delivery.

For additional information on **RHEOBUILD 1038** and its use in developing a concrete mix with special performance characteristics, contact your local Degussa Sales field representatives.

SHELF LIFE

RHEOBUILD 1038 can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original packaging. If found to be frozen, thaw it at 20°C and reconstitute by stirring.

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PRECAUTIONS

RHEOBUILD 1038 is not a fire or health hazard. Spillages should be washed down immediately with cold water.

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

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