

RHEOBUILD[®] 718

A superplasticising admixture to produce low slump loss rheoplastic concrete

DESCRIPTION

RHEOBUILD 718 is a chloride free, ready-to-use, liquid admixture comprised of synthetic polymers specially designed to impart low slump rheoplastic qualities to concrete. Rheoplastic concrete is a fluid concrete with a slump value 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 no-slump concrete without additive.

RHEOBUILD 718 has been formulated to meet the requirements of ASTM C494 Type B, D and G, BS5075 Part 3 & UNI no. 7102, 7104-72 and 8145 for high range water-reducing admixtures. It is compatible with all cements meeting recognised international standards.

FIELDS OF APPLICATION

- mass-concrete
- ready-mixed concrete
- long distance transport
- pumped concrete
- hot weather concreting
- use with all cements and air-entraining admixtures approved under ASTM, AASHTO, CRD & BSI.

It is suitable for:

- foundation rafts of nuclear power stations, turbo-generators, rolling mills, shipyards and high rise buildings.
- transporting of concrete for more than one hour.
- casting structures where concrete is pumped over a distance of more than 200 metres or to a considerable height.
- reinforced concrete or prestressed concrete structures in regions where temperatures normally exceed 40°C and relative humidity is low.

FEATURES AND BENEFITS

Very high workability	Short placement time. Saves time and labour.
High water reduction	High impermeability and strength. Improves durability.
Superior cohesion	No segregation even at high workability. Excellent concrete quality.
Low shrinkage and creep	Better dimensional stability.

TYPICAL PERFORMANCE DATA

Pot Life and Workability : **RHEOBUILD 718** typically ensures that the rheoplastic concrete remains workable for up to 3 hours at 20°C and 1 hour at 40°C. The workability loss depends not only on temperature, but also on the type of cement, the nature of the aggregates and the method of transportation.

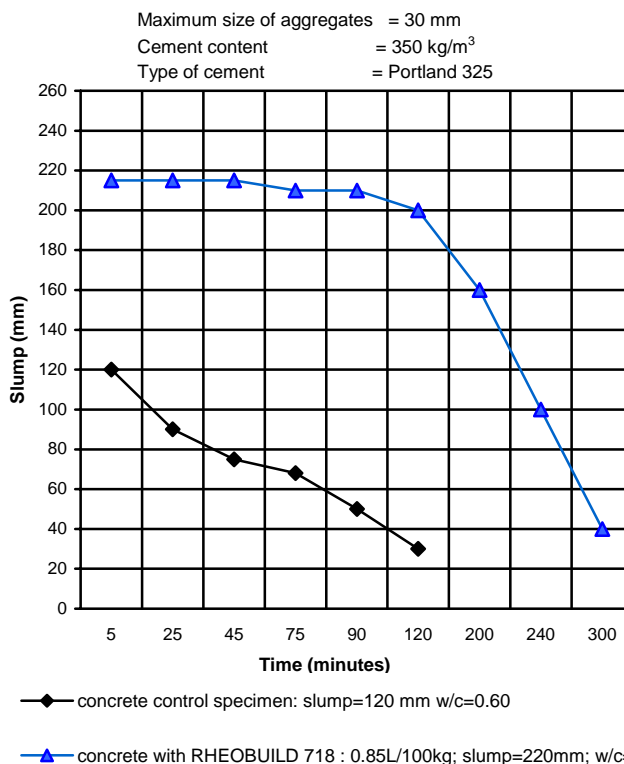
Rate of hardening

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 mixes should be made with job materials to determine the optimum dosage required for a specified setting time and a given strength requirement.

Compatibility

RHEOBUILD 718 is compatible with both water reducers and air entraining agents approved under ASTM specifications, but it should be dispensed separately into the concrete mix. It should only be used

Example of the influence of **RHEOBUILD 718** on the duration of workability at 25°C



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The Chemical Company

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with water reducers after specific testing at the proposed dose rates, as certain combinations of dosages can result in extended retardation.

APPLICATION

RHEOBUILD 718 provides optimal benefits when all materials have been batched and mixed.

Dispensing

The addition of **RHEOBUILD 718** to a dry mix is not recommended.

RHEOBUILD 718 can be dosed either at the batching plant or at the placing site.

At the batching plant, introduce **RHEOBUILD 718** at the specified dosage directly into the mixer through a dispenser along with mixing water, when the concrete is thoroughly wetted (i.e. after adding at least 75% of the mixing water) and mix for at least 2 minutes.

If added at the placing site, mix for at least 2 minutes after the addition.

DOSAGE

RHEOBUILD 718 is normally dispensed at a rate of 0.7-1.2L per 100kg of cementitious materials. Other

dosages may also be used depending on the specific working conditions.

PACKAGING

RHEOBUILD 718 is available in 205L drums or by bulk delivery.

SHELF LIFE

RHEOBUILD 718 can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

PRECAUTIONS

Health : **RHEOBUILD 718** does not contain any hazardous substances requiring labelling.

It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

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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