

# RHEOBUILD<sup>®</sup> 716

Superplasticising admixture to produce rheoplastic concrete

## DESCRIPTION

**RHEOBUILD 716** is a chloride free, ready-to-use, liquid admixture comprised of synthetic polymers specially designed to impart rheoplastic qualities to concrete.

A rheoplastic concrete is a fluid concrete with a slump of at least 200 mm, easily flowing but at the same time free from segregating, and having the same water/cement ratio as that of a no-slump concrete without additive.

**RHEOBUILD 716** has been formulated to meet the requirements of ASTM C494 for Type G admixtures. It is compatible with all cements meeting recognised international standards.

## FIELDS OF APPLICATION

- high quality concrete under normal application conditions
- reinforced and prestressed concrete beams
- high loaded beams
- foundation rafts
- foundation piles
- storage tanks
- purification plants
- underwater structures
- diaphragm walls
- jetties, wharves
- highly reinforces structures
- bank vaults
- silos
- towers and chimneys
- Irrigation canals
- weirs and tunnels in hydro-electric structures
- airfield runways and roads

## FEATURES AND BENEFITS

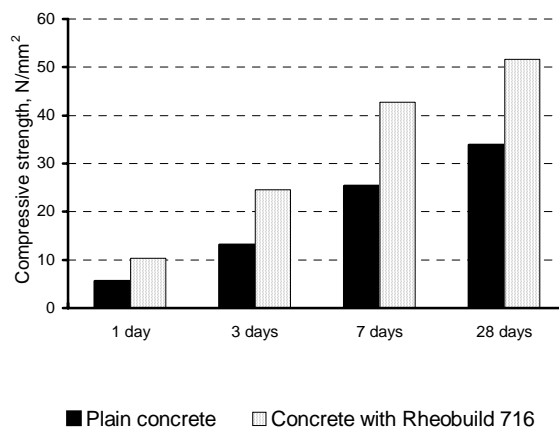
<b>Very high workability</b>	Short placement time. Saves time and labour.
<b>High water reduction</b>	High impermeability and strength. Improves durability.
<b>Superior cohesion</b>	No segregation even at high workability. Excellent concrete quality.
<b>Low shrinkage and creep</b>	Better dimensional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

## TYPICAL PERFORMANCE DATA

Workability : **RHEOBUILD 716** ensures that the rheoplastic concrete remains workable for about 1-2 hours at 20°C. The precise duration of workability depends not only on the temperature, but also on the type of cement, the nature of aggregates and method of transportation.

Example of the influence of **RHEOBUILD 716** on concrete strength development

Maximum size of aggregates : 20 mm,  
Cement content : 350 kg/m<sup>3</sup>  
Dosage of Rheobuild 716 : 1.0L/100kg



## 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 climate 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.

## APPLICATION

**RHEOBUILD 716** provides optimal benefits when all materials have been batched and mixed.

### Dispensing

The addition of **RHEOBUILD 716** to a dry mix is not recommended.

**RHEOBUILD 716** can be dosed either at the batching plant or at the placing site.

At the batching plant, introduce **RHEOBUILD 716** 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.



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

## DOSAGE

**RHEOBUILD 716** is normally dispensed at a rate of 0.7-1.2L per 100 kg of cement. Other dosages may also be used depending on the specific working conditions.

## PACKAGING

**RHEOBUILD 716** is available in 205L drums or by bulk delivery.

## SHELF LIFE

**RHEOBUILD 716** 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 716** 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

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### NOTE

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