



The Chemical Company

RHEOBUILD[®] 895

A Superplasticising admixture for high strength concrete

DESCRIPTION

RHEOBUILD 895 is a chloride free, high range water reducing admixture. It is based on selected water soluble sulphonated polymers of different molecular weights, each of which acts optimally on the various constituents of Portland cement. It is also effective on blended cements based on Portland cement and other materials such as pozzolans, fly ash, and slags.

The use of **RHEOBUILD 895** helps in the production of rheoplastic concrete with very low water/cement ratios.

A rheoplastic concrete is a fluid concrete with a slump value of at least 20 mm or higher, that flows easily but at the same time is free from segregation, and has the same water/cement ratio as that of a no-slump concrete without additive.

RHEOBUILD 895 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 with water reducer after specific testing at the proposed dose rates, as certain combinations of dosages can result in extended retardation.

RHEOBUILD 895 meets the requirements of ASTM C494 for Types A and F admixtures and SS320.

FIELDS OF APPLICATION

RHEOBUILD 895 is especially suitable for concrete used in the construction of precast elements which requires excellent workability and very high early and final strengths, such as:

- production of load bearing precast elements (e.g. bridge girders, piles concrete housing)
- structures constructed using travelling forms and slip forms.
- cold weather concreting
- insitu casting of structural elements

FEATURES & BENEFITS

Very high workability	Short placement time. Saves time and labour.
High water reduction	High impermeability and strength. Improved durability.
Superior cohesion	No segregation even at high workability. Excellent concrete quality.
High early strength	Early demoulding. Shorter steam curing cycles.
High elastic modulus	Superior load bearing

capacity.
Better dimensional stability and creep.

Low shrinkage

APPLICATION

Dispensing

Mix concrete using approximately 75% - 80% of the total mixing water to yield a stiff, damp and homogenous mix. Add **RHEOBUILD 895** to the concrete at the specified dosage through a dispenser. Mix for at least 1 minute. While continuing to mix, add the remaining water until the specified workability is obtained.

Though **RHEOBUILD 895** improves cohesion and minimizes segregation of the mix even with harsh aggregates, segregation or bleeding may occur due to the use of coarse sand or very old cement. In such a case, one of the following modifications is recommended:

- continue mixing for 1 to 2 minutes after adding the final dose of water.
- lower the slump slightly by reducing the final dose of water.
- reduce the dosage of **RHEOBUILD 895** by up to 25%.

The use of fly-ash or silica fume can be beneficial in the production of very cohesive and self levelling concrete. Fly-ash or silica fume can be added along with cement.

DOSAGE

Dosage depends upon the mix design, the ambient conditions and the degree of water reduction and workability required. Typical dosage used is 0.5 - 2 L per 100 kg cementitious materials. Site trials are recommended to fix the dosage.

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 895 is supplied in 205 litres drum.

SHELF LIFE

RHEOBUILD 895 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.

BASF Construction Chemicals offices in ASEAN

Singapore

Tel :+65-6861-6766
Fax :+65-6861-3186

Malaysia

Tel :+60-3-5628-3388
Fax :+60-3-7847-6781

Indonesia

Tel :+62-21-893-4339
Fax :+62-21-893-4342

Thailand

Tel :+66-2204-9427
Fax :+66-2664-9267

Vietnam

Tel :+84-650-743-100
Fax :+84-650-743-200

Philippines

Tel : +63-2-889-4321
Fax : +63-2-889-4361



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PRECAUTIONS

Health : RHEOBUILD 895 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.

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