

# GLENIUM<sup>®</sup>STREAM 2

## Viscosity enhancing admixture for self-compacting concrete

### Description

The new technology of self-compacting concrete allows concretes to be obtained that can become compact without vibration, even with strongly reinforced structures.

A self-compacting mix should have a high workability and high viscosity.

The fluidity of the mix is guaranteed provided there is no friction between the internal particles and the concrete can flow freely; segregation occurs when the components of the concrete separate out into mortar and large aggregates.

Reaching the right balance between fluidity and resistance to segregation - apparently opposing properties - is essential for this type of mix. This balance is lacking when the fluidity of the concrete is obtained by adding water. Although a superplasticizer admixture gives high fluidity, alone it does not guarantee the necessary properties to ensure a good degree of self-compacting. That is why GLENIUM<sup>®</sup>STREAM 2 is a fundamental admixture when making Self-compacting Concrete.

### Mechanism of action

GLENIUM<sup>®</sup>STREAM 2 consists of a mixture of water-soluble copolymers which is adsorbed onto the surface of the cement granules, thereby changing the viscosity of the water and influencing the rheological properties of the mix.

GLENIUM<sup>®</sup>STREAM 2 is chloride-free and compatible with all cements. It is incompatible for use with naphthalenesulphonate based superplasticizer admixtures.

Thanks to its particular chemistry, with GLENIUM<sup>®</sup>STREAM 2 it is possible to:

- refine the rheology of the mixes by increasing cohesiveness and eliminating bleeding;
- produce concretes distinguished by their great stability and strong capacity to retain water;
- make the mixture less sensitive to variations in sand grading, to the shape and moisture content of the aggregates and to the characteristics of the binders;
- obtain greater flexibility of choice and type of casts because of a low risk of segregation, greater pumping speeds and distances;

### Dosage and method of use

GLENIUM<sup>®</sup>STREAM 2 is dosed at the rate of 0.1 to 0.8 litre/100kg of cementitious material. Other dosages may be recommended in special cases according to specific job site conditions.

For best performance it is advisable to continue mixing until the mix is completely homogeneous. To produce Self-compacting Concrete, GLENIUM<sup>®</sup>STREAM 2 should be used in combination with GLENIUM<sup>®</sup>250 SCC in order to guarantee maximum efficacy.

### Packaging

GLENIUM<sup>®</sup>STREAM 2 is available in 200 litre drums, or in bulk.

GLENIUM<sup>®</sup>STREAM 2 is not compatible with admixtures of the Rheobuild<sup>®</sup> line.

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## Health and safety

GLENIUM<sup>®</sup>STREAM 2 contains no hazardous materials and is completely transport class free. However, it is recommended to use standard handling procedures with the product. Wear gloves and eye protection and wash splashes to the skin with soap and water at the end of shifts or at breaks.

## Storage

GLENIUM<sup>®</sup>STREAM 2 must be stored where temperatures do not drop below +5°C. If product has frozen thaw and agitate until completely reconstituted. Store under cover, out of direct sunlight and protect from extremes of temperatures.

## Safety precautions

GLENIUM<sup>®</sup>STREAM 2 is not a fire or health hazard. Spillages should be washed down immediately with cold water. 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 Construction Chemicals SA representative.

## Quality and care

All products originating from BASF Construction Chemicals SA, are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001/2000

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As all BASF's technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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