

GLENIUM[®] ACE 30

High range water reducing/superplasticising admixture

DESCRIPTION

Glenium Ace 30 is an innovative second generation of polycarboxylic ether polymers superplasticiser. The particular molecular configuration of **Glenium Ace 30** accelerates the cement hydration. Rapid absorption of the molecule onto the cement particles, combined with an efficient dispersion effect, exposes increased surface of the cement grains to react with water.

As a result of this effect, it is possible to obtain earlier development of the heat of hydration, rapid development of the hydration products and, as a consequence, higher strengths at a very early age.

Complies with EN934 Part 2 Table 3 'High Range Water Reducing/Superplasticizing'.

ZERO ENERGY SYSTEM

Zero Energy System is based on a combination of the advanced technology admixture **Glenium Ace 30** and the innovative technology of Rheodynamic concrete. The **Zero Energy System** has been developed to help the precast concrete producer to rationalize his production process and save on energy costs combined with improved quality of the product and the working conditions.

RECOMMENDED FOR

- **Glenium Ace 30** is suitable for making precast concrete elements at all workabilities including Rheoplastic concrete having fluid consistence, no segregation and low water cement ratio and, consequently, high early and long term strengths.
- **Glenium Ace 30** may be used in combination with **Glenium Stream** admixtures for producing Rheodynamic concrete, capable of self-compaction, even in the presence of dense reinforcement, without the aid of vibration, for making precast elements.
- **Glenium Ace 30** performs best when the concrete temperature is at 15°C or above.

FEATURES AND BENEFITS

Glenium Ace 30 offers the following benefits for the precast concrete industry to:

- *produce Rheoplastic and Rheodynamic concrete having a low water cement ratio*
- *optimise the curing cycles by reducing curing time or curing temperature*
- *eliminate the heat curing*
- *eliminate the energy required for placing, compaction and curing (Zero Energy)*
- *increase productivity/reduction in cycle times*
- *improve surface appearance*
- *produce durable precast concrete elements as per EN206-1*
- *as compared to the traditional superplasticisers, the engineering properties such as early and ultimate compressive and flexural strengths, bond to steel, modulus of elasticity, shrinkage, creep and impermeability*

PROPERTIES

SG	TBA
pH	7.00
Alkali %	≥ 0.5
Chloride %	≥ 0.10
Chlorine %	≥ 0.10

APPLICATION

Glenium Ace 30 is a liquid admixture to be added to the concrete during the mixing process. The best results are obtained when the admixture is added after at least 70% of the added water and after all the other components are already in the mixer.

DOSAGE

The normally recommended dosage rate is:

By Volume – 0.2 to 1.5 litres per 100kg of cement (binder) and any material (fines of fillers) passing the 0.1mm sieve used for producing Rheodynamic concrete.

By Mass – 0.1 to 1.58kg per 100kg of cement (binder)

Other dosages may be used in special cases according to specific job site conditions. In this case consult your BASF Technical Representative.

COMPATABILITY

Glenium Ace 30 is compatible and recommended for use with:

- **Glenium Stream** admixtures to produce Rheodynamic and self-compacting concrete.
- **Micro Air**, air entraining admixture, to improve freeze thaw resistance (exposure class XF1 to XF4, EN 206-1)
- **Rheomac** for producing shrinkage compensated concrete.
- **Meyco MS685**, silica admixture for SCC.

Glenium Ace 30 is NOT compatible with **Rheobuild** superplasticisers.

PACKAGING

Glenium Ace 30 is available in 1000 litres, 205 litre drums and 20 litre cubes.

STORAGE

Glenium Ace 30 must be stored in a place where temperature does not drop below +5°C. If product has frozen, thaw at +3°C and agitate until completely reconstituted. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your BASF Construction Chemicals Technical Representative.



The Chemical Company

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STATEMENT OF RESPONSIBILITY

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NOTE

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