

# GLENIUM<sup>®</sup> 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. **GLENIUM ACE 30** meets AS 1478 for Type SWR admixtures.

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 Technical Sales Representative.



The Chemical Company

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## PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the **BASF Material Safety Data Sheet (MSDS)** from our office or our website.

**AGACE30/5/0711**

### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** 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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