

MasterGlenium[®] ACE 30

(Formerly known as Glenium Ace 30)

High range water reducing/superplasticising admixture

DESCRIPTION

MasterGlenium ACE 30 is an innovative second generation of polycarboxylic ether polymers superplasticiser. The particular molecular configuration of

MasterGlenium 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.

MasterGlenium ACE 30 meets AS 1478 for Type SWR admixtures.

MasterGlenium ACE 30 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

Master 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 USES

MasterGlenium ACE 30 is suitable for making precast concrete elements at all work abilities including Rheoplastic concrete having fluid consistence, no segregation and low water cement ratio and, consequently, high early and long term strengths.

MasterGlenium ACE 30 may be used in combination with Master 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.

MasterGlenium ACE 30 performs best when the concrete temperature is at 15°C or above.

FEATURES AND BENEFITS

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

- produce Rheoplastic and Rheodynamic concrete having a low water cement ratio
- optimize 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, modules of elasticity, shrinkage, creep and impermeability

APPLICATION

MasterGlenium 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 local BASF Technical Sales Representative.



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COMPATABILITY

MasterGlenium ACE 30 is compatible and recommended for use with:

- MasterGlenium Stream admixtures to produce Rheodynamic and self-compacting concrete.
- MasterAir, air entraining admixtures, to improve thaw resistance (exposure class XF1 to XF4, EN 206-1)
- **MasterRoc MS 695**, silica admixture for SCC.

MasterGlenium ACE 30 is NOT compatible Master Rheobuild admixtures.

PACKAGING

MasterGlenium ACE 30 is available in 1000 litre pallecons, 205 litre drums and 20 liter cubes.

STORAGE/SHELF LIFE

MasterGlenium 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 local BASF Technical Sales Representative. MasterGlenium ACE 30 can be stored for 12 months.

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 Safety Data Sheet (SDS) from our office or our website.

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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