

MasterGlenium[®] ACE 3735

A latest generation high-performance polycarboxylate ether (PCE) superplasticizer for the Precast/Readymix industry. Essential component of ZERO ENERGY SYSTEM

DESCRIPTION

MasterGlenium ACE 3735 (Admixture Controlled Energy) consists of an innovative patented latest generation modified polycarboxylate ether polymer. The particular molecular configuration allows **MasterGlenium ACE 3735** to firstly give workability retention and then to accelerate cement hydration. As a result, 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 very early age. The polymer structure of **MasterGlenium ACE 3735** is specially designed to improve rheology of concrete, making it flowable and less viscous even at very low water/cement ratios. Robustness is a distinctive feature of concrete produced with **MasterGlenium ACE 3735**.

FIELDS OF APPLICATION

MasterGlenium ACE 3735 is suitable for making precast concrete elements with highly-fluid concrete without segregation at low water cement ratios with consequently high early and ultimate strengths. **MasterGlenium ACE 3735** may be used in combination with **MasterMatrix** for producing advanced Self Compacting Concrete (SCC) or Smart Dynamic Concrete (SDC) without the aid of vibration, for economic, ecological and ergonomic precast production.

FEATURES & BENEFITS

MasterGlenium ACE 3735 offer the following benefits for the precast/readymix concrete industry:

- Production of highly flowable, robust self-compacting concrete having a low water cement ratio along with an optimal rheology.
- Enhanced workability retention and improved consistency of concrete quality with low stickiness.
- Environmentally friendly, CO₂ reduced mix design optimization.

- Elimination or reduction of heat curing.
- Improved surface appearance.
- Durable precast concrete elements as per EN 206-1.
- Elimination of the energy required for placing, compaction and curing.
- Optimization of the curing cycles by reducing curing time or curing temperature.
- Increased productivity.

PACKAGING

MasterGlenium ACE 3735 is available in bulk or drums.

STANDARDS

MasterGlenium ACE 3735 meets the requirements of EN 934-2 & ASTM C494 Type F.

TYPICAL PROPERTIES*

Appearance and Form	Whitish to light brown colored liquid
Specific gravity @ 25°C	1.080
pH-value @ 25°C	9-11
Chloride ion content	"Chloride Free" to EN 934

DIRECTIONS FOR USE

MasterGlenium ACE 3735 is a ready to use liquid admixture that is added to the concrete at the time of batching.

The maximum effect is achieved when the **MasterGlenium ACE 3735** is added after the addition of 70% of the water. **MasterGlenium ACE 3735** must not be added to the dry materials.

Thorough mixing is essential and a minimum mixing cycle, after the addition of the **MasterGlenium 3735**, of 60 seconds for forced action mixers is recommended.

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DOSAGE RATE

The recommended dosage rate is 0.5 to 2.0 liters per 100kg of cementitious material. Other dosages may be used in special cases according to specific production conditions. In this case please consult our Technical Services Department.

COMPATIBILITY

MasterGlenium ACE 3735 is compatible and recommended for use with:

- **MasterMatrix** to modify the viscosity of SCC.
- **MasterAir**, air entraining admixture to improve freeze-thaw resistance.
- **MasterFinish**, demoulding agent for easy formwork removal and improved finish.
- **MasterKure**, user friendly curing compound for highly efficient water retention.

MasterGlenium ACE 3735 is not compatible with **MasterRheobuild** superplasticizers.

MasterGlenium ACE 3735 is suitable for mixes containing all types of Portland cement and cementitious materials as follows:

- microsilica
- fly ash (PFA)
- ground granulated blastfurnace slag GGBS

STORAGE

MasterGlenium ACE 3735 should be stored above 0°C in closed containers or storage tanks to protect from evaporation. The shelf life is 1 year when stored as above.

The occurrence of a surface layer with **MasterGlenium ACE 3735** is normal and will have no effect on the performance of the product.

SAFETY PRECAUTIONS

MasterGlenium ACE 3735 contains no hazardous substances requiring labelling. 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 representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

* Properties listed are based on laboratory controlled tests.

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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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