

# MasterGlenium ACE 30

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## High range water reducing admixture for concrete EN 934-2: T3.1 & T3.2& T7

### DESCRIPTION

MasterGlenium ACE 30 is optimized for use where the time between concrete mixing & placing is rapid, such as when using bucket skips or direct discharge from mixer to unit. In this instance, the workability life of the concrete is optimized to give a balance between the retention of the workability but still enabling the strength development process to start as soon as possible. If utilized in conjunction with our patented MasterX-Seed concept this enables rapid mold turn round and can reduce or even eliminate the need for enhanced temperature curing regimes. The particular molecular configuration of MasterGlenium ACE 30 accelerates the cement hydration by allowing an increased surface area of the cement particle to react with water. Robustness and controlled retention is a distinctive feature of the precast concrete produced with MasterGlenium ACE 30.

### ZERO ENERGY SYSTEM

The Zero Energy System is based on a combination of the latest MasterGlenium ACE superplasticizers and advanced self-compacting concrete technology. The Zero Energy System has been developed to help the precast concrete producer rationalize his production process and save on energy costs, whilst combining this with improved quality of the product and overall site working conditions.

### FIELDS OF APPLICATION

MasterGlenium ACE 30 is suitable for making precast concrete elements with highly workable, non-segregating concrete utilizing low water cement ratios and, consequently, high early and final strengths. This can be achieved without the aid of vibration, for economic, ecological and ergonomic precast production.

MasterGlenium ACE 30 has been developed to have a particular synergy for use with the MasterX-Seed Crystal Speed Hardening concept.

### FEATURES and BENEFITS

MasterGlenium ACE 30 offers the following benefits for the precast concrete industry:

- Production of highly flowable, robust self-compacting concrete having a low water cement ratio along with an optimal Rheology and optimized workability retention times.
- Enhanced robustness and consistency in concrete quality with low stickiness.
- Environmentally friendly, CO<sub>2</sub> reduced mix-design optimization.
- Potential elimination or reduction of heat curing. Reduction in curing time or curing temperature. Increased productivity particularly in combination with MasterX-Seed - Crystal Speed Hardening.
- Improved surface appearance.
- Durable precast concrete elements as per EN 206-1.
- Elimination of the energy required for placing, compaction and curing (ZERO ENERGY)
- Optimization of the curing cycles.

### DOSAGE

The normally recommended dosage rate of MasterGlenium ACE 30 is approximately:

- *By Weight* – 0.5 to 1.5 kg per 100 kg of cement (binder) content.

The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilized in special cases according to specific job conditions. If required consult BASF Türk Kimya San. ve Tic.

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Ltd. Şti. Construction Chemicals Division Technical Services Department for advice. Trial mixes should be carried out to ensure optimum dosage and effect. Where the concrete is to be machine finished by utilizing power float or power trowelling methods, we recommend that you contact the according to specific job conditions. If required consult BASF Türk Kimya San. ve Tic. Ltd. Şti. Construction Chemicals Division Technical Services Department for dosage rate guidance.

### MIXING

MasterGlenium ACE 30 is a liquid admixture that is added to the concrete during the mixing process. Optimal water reduction is obtained if the MasterGlenium ACE 30 product is dispensed into the concrete mix after the addition of 70-90% of mixing water. Avoid adding the admixture to dry materials. After adding MasterGlenium ACE 30 allow enough mixing time to secure a homogenous concrete. If necessary, continue mixing and add additional MasterGlenium ACE 30 to obtain the required workability. Workability levels will start to decrease rapidly after 15 to 30 minutes from mixing (temperature & cement type depending).

### COMPATIBILITY

MasterGlenium ACE 30 can be used with all types of **EN 197** Cements. For use with other special cements, contact our BASF Türk Kimya San. ve Tic. Ltd. Construction Chemicals Division Technical Services Department. MasterGlenium ACE 30 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterGlenium ACE 30 they must be dispensed separately.

MasterGlenium ACE 30 is compatible and recommended for use with:

- MasterX-Seed - Crystal Speed Hardening Concept for accelerated early strengths

- MasterMatrix to modify the viscosity of SCC.
- MasterFinish, demoulding agents for easy formwork removal and improved finish.
- MasterKure, curing compounds for highly efficient water retention and friendly use.

MasterGlenium ACE 30 is **not compatible** with all admixtures of MasterRheobuild series.

When such complimentary admixtures are required it is important that laboratory trials are performed, prior to any supply, to determine the respective dosages of any complimentary admixture, and the suitability, in the fresh and hardened state, of the resultant concrete. In these circumstances we recommend that you consult our BASF Türk Kimya San. ve Tic. Ltd. Construction Chemicals Division Technical Services Department for further advice.

### PACKAGING

MasterGlenium ACE 30 is supplied in bulk, 1060 kg IBCs, 220 kg barrels and 25 kg cans.

### CONTACT DETAILS

BASF Türk Kimya San. ve Tic. Ltd. Şti.  
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## MasterGlenium ACE 30

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Product Data	
Structure of the Material	Modified Polycarboxylic Ether Based
Appearance	Brown
Specific gravity @ 20°C	1.05- 1.1 kg/l
pH-value	5-7
Alkali content (%):	≤ 3 by mass
Chloride content (%)	≤ 0.10 (by mass)
Corrosion behaviour	Contains only components according to BS EN 934-1:2008, Annex A.1
Dangerous substances	Comply with annex AZ.
Logistics	
Shelf life	12 months if stored according to manufacturer's instructions in unopened container.
Storage conditions	Store in original sealed containers and at temperatures between 5°C and 30°C. 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.
Handling and transportation	Refer to MasterGlenium ACE 30 Safety Data Sheet.
Disposal	Refer to MasterGlenium ACE 30 Safety Data Sheet.



We create chemistry

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## HEALTH AND SAFETY

\*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

## SPILLAGE

Chemical products can cause damage; clean spillage immediately.

## DISCLAIMER

"BASF Türk Kimya San. ve Tic. Ltd. Şti. Construction Chemicals Division" (the Company) endeavors to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest product literature.