

# MasterGlenium® 3284

Polycarboxylic ether based superplasticizer for the production of high quality ready-mix concrete

## DESCRIPTION

**MasterGlenium® 3284** is an innovative latest generation superplasticizer based on polycarboxylic ether (PCE) polymers, and is specially engineered for ready-mix concrete.

**MasterGlenium® 3284** is differentiated from conventional superplasticisers, such as those based on sulphonated naphthalene formaldehyde condensate in that it is based on a unique carboxylic ether polymer with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process the same electrostatic dispersion occurs but the presence of the lateral chains, linked to the polymer backbone, generate a steric hindrance which stabilises the cement particles capacity to separate and disperse. This mechanism provides flowable concrete with greatly reduced water demand.

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**MasterGlenium® 3284** is used for the production of high quality ready-mix concrete.

## FEATURES AND BENEFITS

- Capability of delivering high performance concrete at any time to the job site in place.
- Production of a concrete with low water/cement ratios with excellent workability and retention properties.
- Single product for many application needs.
- Excellent compatibility with all types of cement.
- Excellent compatibility with all types of admixtures.
- Excellent compatibility with all types of aggregates.

## TYPICAL PROPERTIES\*

Appearance	Brownish liquid
Specific gravity @ 25°C	1,040 - 1,080
pH value	7.0 - 9.0
Chloride content	"chloride-free" to EN 934-2

The occurrence of a surface layer with **MasterGlenium® 3284** is normal and will have no effect on the performance of the product.

## 7 5 HCB / GH5 B85 F8 G

ASTM C-494 Type F&G  
BS EN 934-2

## DOSAGE

The normally recommended dosage rate of **MasterGlenium® 3284** is 0.8 to 2.5 litre per 100kg of total cementitious material. Other dosages may be recommended in special cases according to the specific site conditions. In this case please consult our Technical Services Department for advice.

## MIXING

**MasterGlenium® 3284** is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **MasterGlenium® 3284** is poured into the concrete mix right after the addition of the first 80% of the mixing water, i.e. when all solids are wetted. Avoid adding the admixture to the dry aggregates.



We create chemistry

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## COMPATIBILITY

**MasterGlenium® 3284** is not compatible with **MasterRheobuild®** superplasticizers.

**MasterGlenium® 3284** is suitable for mixes containing:

- Microsilica (Silica Fume)
- Fly Ash (PFA)
- GGBS (ground granulated blast furnace slag)

## PACKAGING

**MasterGlenium® 3284** is available in 20L, 210 litre drums, 1000 litre IBCs or in bulk.

## STORAGE / SHELF LIFE

**MasterGlenium® 3284** should be stored out of direct sunlight and protected from extremes of temperatures. The shelf life is 12 months from date of manufacture when stored as above.

## HANDLING AND TRANSPORTATION

No special requirements must be observed during use. Protection gloves and glasses are however recommended. **MasterGlenium® 3284** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

## PRECAUTIONS

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

## QUALITY AND RESPONSIBLE CARE

All products originating from BASF Construction Chemicals South Africa are manufactured under a management system independently certified to conform to the requirements of the quality (ISO 9001), environmental and occupational health & safety standards.

\* 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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