

MasterGlenium[®] SKY 3110

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

DESCRIPTION

MasterGlenium SKY 3110 is an innovative latest generation superplasticizer based on polycarboxylic ether (PCE) polymers, and is specially engineered for high performance high strength ready-mix concrete.

MasterGlenium SKY 3110 is differentiated from conventional superplasticisers, such as those based on sulphonated naphthalene 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.

FIELDS OF APPLICATION

MasterGlenium SKY 3110 is used for the production of high quality ready-mix concrete.

FEATURES AND BENEFITS

The ready-mix producer:

- 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 retention properties.
- Single product for many application needs

The contractor / applicator:

- Easier placing and faster strength development
- Improved concrete surfaces

The engineer:

- Insurance that concrete meets original specification
- High quality durable concrete

PACKAGING

MasterGlenium SKY 3110 is supplied in 210 litre drums, 1,000 litre containers or in bulk.

TYPICAL PROPERTIES*

Appearance	Medium brown coloured liquid
Specific gravity @ 25°C	1.130
pH value	5.0 – 7.0
Chloride content	“chloride-free” to EN 934

STANDARDS

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

APPLICATION PROCEDURE

DOSAGE

The normally recommended dosage rate of **MasterGlenium SKY 3110** is 0.6 to 2.2 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 SKY 3110 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **MasterGlenium SKY 3110** 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.

MasterGlenium® SKY 3110

COMPATIBILITY

MasterGlenium SKY 3110 is not compatible with **MasterRheobuild** superplasticizers.

MasterGlenium SKY 3110 is suitable for mixes containing:

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

STORAGE

MasterGlenium SKY 3110 should be stored 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 SKY 3110** is normal and will have no effect on the performance of the product.

HANDLING AND TRANSPORTATION

No special requirements must be observed during use. Protection gloves and glasses are however recommended.

MasterGlenium SKY 3110 is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

SAFETY PRECAUTIONS

MasterGlenium SKY 3110 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.

® = Registered trademark of the BASF-Group in many countries.

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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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