

MasterGlenium® 107M

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

DESCRIPTION

MasterGlenium 107M is an innovative latest generation superplasticizer based on polycarboxylic ether (PCE) polymers and is specially engineered for ready-mix concrete.

MasterGlenium 107M is differentiated from conventional superplasticiser, 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 stabilizes the cement particles capacity to separate and disperse.

This mechanism provides flowable concrete with greatly reduced water demand.

FIELDS OF APPLICATION

MasterGlenium 107M 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 applications needs

The contractor / applicator:

- Easier placing and faster strength development
- Improved concrete surfaces
- Guarantee to place the same concrete as specified and ordered from ready-mix plant

The engineer:

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

PACKAGING

MasterGlenium 107M is supplied in 210-liter drums, 1,000-liter containers or in bulk.

STANDARDS

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

TYPICAL PROPERTIES

Appearance	Clear to whitish to light green colored liquid
Specific gravity @ 25°C	1.035-1.045
pH value	3.5 – 6.5
Chloride content	"Chloride-free" to EN 934

APPLICATION GUIDELINES

DOSAGE

The normally recommended dosage rate of **MasterGlenium 107M** 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 107M is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **MasterGlenium 107M** 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.

COMPATIBILITY

MasterGlenium 107M is not compatible with **MasterRheobuild** superplasticizers. **MasterGlenium 107M** is suitable for mixes containing:

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

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STORAGE AND SHELF LIFE

MasterGlenium 107M should be stored out of direct sunlight and protected from extremes of temperature. The shelf life is 12 months when stored as above.

The occurrence of a surface layer with **MasterGlenium 107M** 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 107M** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

HEALTH AND SAFETY

MasterGlenium 107M contains no hazardous substances requiring labelling. For further information refer to the Material Safety Data Sheet.

CONTACT

Should you require any further information, please do not hesitate to contact us:
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