

# MasterGlenium<sup>®</sup> 106M

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

## DESCRIPTION

**MasterGlenium 106M** is an innovative second-generation superplasticizer based on polycarboxylic ether (PCE) polymers and is specially engineered for ready-mix concrete.

**MasterGlenium 106M** 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.

## TYPICAL APPLICATIONS

**MasterGlenium 106M** is used for the production of high-quality ready-mix concrete.

## ADVANTAGES

### 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
- 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 106M** is supplied in 210 L drums, 1,000 L containers or in bulk.

## STANDARDS

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

## TYPICAL PROPERTIES\*

Appearance	Clear to light Green
Specific gravity @ 25°C	1.060 - 1.070
pH value	4.0 - 7.0
Chloride content	"Chloride-free" to EN 934

## APPLICATION GUIDELINES

The normally recommended dosage rate of **MasterGlenium 106M** is 0.6 - 2.0 L/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 106M** is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **MasterGlenium 106M** 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.

**MasterGlenium106M** is suitable for mixes containing:

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

Note: **MasterGlenium 106M** is not compatible with **MasterRheobuild** superplasticizers.

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## STORAGE AND SHELF LIFE

**MasterGlenium 106M** should be stored in closed original containers or bulk storage tanks so as to protect from extremes of temperature.

The shelf life is 12 months when stored as above.

The occurrence of a surface layer with **MasterGlenium 106M** is normal and will have no effect on the performance of the product.

## HEALTH AND SAFETY

No special requirements must be observed during use. Protection gloves and glasses are recommended. **MasterGlenium 106M** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

**MasterGlenium 106M** 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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