

MasterGlenium[®] 120AD

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

DESCRIPTION

MasterGlenium 120AD is an innovative latest generation superplasticizer based on polycarboxylic ether (PCE) polymers, and is specially engineered for ready-mix concrete.

MasterGlenium 120AD 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 120AD 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 need

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 120AD 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	Brownish coloured liquid
Specific gravity @ 25°C	1.065
pH value	4.0 - 7.0
Chloride content	"chloride-free" to EN 934

APPLICATION GUIDELINES

The normally recommended dosage rate of **MasterGlenium 120AD** is 0.8 to 2.5 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 120AD is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **MasterGlenium 120AD** 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 dry aggregates.

MasterGlenium 120AD is suitable for mixes containing:

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

Note: **MasterGlenium 120AD** is not compatible with **MasterRheobuild** superplasticizers.



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STORAGE AND SHELF LIFE

MasterGlenium 120AD should be stored in closed containers or bulk tanks to protect from extremes of temperature.

The shelf life is 12 months when stored as above.

The occurrence of a surface layer with **MasterGlenium 120AD** 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 however recommended. **MasterGlenium 120AD** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

MasterGlenium 120AD contains no hazardous substances requiring labelling. For further information refer to the Material Safety Data Sheet.

QUALITY AND CARE

All products originating from Master Builders Solutions 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 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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