# MasterGlenium<sup>®</sup> 3889

Polycarboxylic ether based superplasticizer for the production of high quality ready-mix concrete with exceptional workability retention.

## DESCRIPTION

**MasterGlenium 3889** is an innovative latest generation superplasticizer based on polycarboxylic ether (PCE) polymers, and is specially engineered for ready-mix concrete were the consistency of aggregates may be variable.

**MasterGlenium 3889** 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.

#### FIELDS OF APPLICATION

**MasterGlenium 3889** 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 3889** is supplied in 210 litre drums, 1,000 litre containers or in bulk.

#### **TYPICAL PROPERTIES\***

Appearance	Whitish to light brown
	clear to cloudy liquid
Specific gravity @ 25°C	1.073
pH value	5.0 – 7.0
Chloride content	"chloride-free" to EN
	934-2

#### STANDARDS

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

#### DOSAGE

The normally recommended dosage rate of **MasterGlenium 3889** is 0.60 to 2.00 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 3889** is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **MasterGlenium 3889** 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® 3889

## COMPATIBILITY

MasterGlenium 3889 is not compatible with MasterRheobuild superplasticizers.

**MasterGlenium 3889** is suitable for mixes containing:

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

MasterGlenium 3889 can be used in combination with air entraining admixtures such as MasterAir 100.

## STORAGE

**MasterGlenium 3889** should be stored in unopened containers or bulk tanks so as to protect from extremes of temperature.

The shelf life is 1 year when stored as above.

The occurrence of a surface layer with **MasterGlenium3889** 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 3889** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

## SAFETY PRECAUTIONS

**MasterGlenium 3889** 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 MBCC r epresentative.

MBCC reserves the right to have the true cause of any difficulty determined by accepted test methods.

## **QUALITY AND CARE**

All products originating from MBCC'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.

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<sup>\*</sup> Properties listed are based on laboratory controlled tests.