

# MasterGlenium<sup>®</sup> SKY 504M

A latest generation high-performance polycarboxylate ether (PCE) superplasticizer for the Readymix industry with extended workability retention.

## DESCRIPTION

**MasterGlenium SKY 504M** consists of a blend of innovative patented latest generation modified polycarboxylate ether polymers. This allows **MasterGlenium SKY 504M** to firstly give a high level of water reduction and secondly extended workability retention up to several hours.

**MasterGlenium SKY 504M** contains polymers specially designed to improve rheology of concrete, making it flowable and less viscous even at very low water/cement ratios. Robustness is a distinct feature of concrete produced with **MasterGlenium SKY 504M**.

## FIELDS OF APPLICATION

**MasterGlenium SKY 504M** is suitable for producing highly-fluid concrete for various applications where concrete remains stable without segregation or bleed at low water cement ratios with high ultimate strength.

**MasterGlenium SKY 504M** may be used in combination with **MasterMatrix 110** to improve mix stability such as when producing Self Compacting Concrete (SCC) that is placed without the use of vibration giving economic, ecological and ergonomic concrete production.

## FEATURES & BENEFITS

### The ready-mix producer:

- Capability of delivering high performance concrete to the job site.
- Production of 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.
- Extended working live for mass concrete of where placing is slow or delayed.
- Improved concrete surfaces finish.

### The engineer:

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

## PACKAGING

**MasterGlenium SKY 504M** is available in 210 litre drums or in bulk.

## STANDARDS

**MasterGlenium SKY 504M** meets the requirements of EN 934-2 and ASTM C494 Type G.

## TYPICAL PROPERTIES\*

Appearance and Form	Light to medium brown colored liquid
Specific gravity @ 25°C	1.080
pH-value @ 25°C	5-7
Chloride ion content	"Chloride Free" to EN 934

## DIRECTIONS FOR USE

**MasterGlenium SKY 504M** is a ready to use liquid admixture that is added to the concrete at the time of batching.

The maximum effect is achieved when the **MasterGlenium SKY 504M** is added after the addition of 70% of the water.

**MasterGlenium SKY 504M** must not be added to the dry materials.

Thorough mixing is essential and a minimum mixing cycle, after the addition of the **MasterGlenium SKY 504M** of 45 seconds for forced action mixers is recommended.

## DOSAGE RATE

The recommended dosage rate is 0.5 to 2.5 litres per 100kg of cementitious material. Other dosages may be used in special cases according to specific production conditions. In this case please consult our Technical Services Department

# MasterGlenium® SKY 504M

## COMPATIBILITY

**MasterGlenium SKY 504M** is compatible and recommended for use with:

- **MasterMatrix 110** to modify the viscosity of Self Compacting Concrete (SCC).
- **MasterFinish**, demoulding agent for easy formwork removal and improved finish.
- **MasterKure**, user friendly curing compound for highly efficient water retention.

**MasterGlenium SKY 504M** is not compatible with **MasterRheobuild** superplasticizers.

**MasterGlenium SKY 504M** is suitable for mixes containing all types of Portland cement and cementitious materials as follows:

- Microsilica (silica fume)
- Fly ash (PFA)
- Ground granulated blastfurnace slag (GGBS)

## STORAGE

**MasterGlenium SKY 504M** should be stored above 0°C 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 504M** is normal and will have no effect on the performance of the product.

## SAFETY PRECAUTIONS

**MasterGlenium SKY 504M** 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 ISO 45001.

\* Properties listed are based on laboratory controlled tests.

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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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