

# MasterGlenium<sup>®</sup> SKY 8763

(formerly Glenium 180 SURETEC)

High-performance super plasticizer with super slump retention for ready mix concrete

## DESCRIPTION

**MasterGlenium SKY 8763** is the superplasticizer based on second generation polycarboxylic ether polymers, developed using nano-technology. The product has been primarily developed for applications in high performance ready-mix concrete to facilitate high early strength gains with super slump retention.

**MasterGlenium SKY 8763** is free of chloride & low alkali. It is compatible with all types of cements.

## RECOMMENDED USES

- **MasterGlenium SKY 8763** is used for the production of high quality ready-mix concrete.
- **MasterGlenium SKY 8763** may be used in combination with MasterMatrix 2 (formerly known as GLENIUM STREAM 2) for producing self compacting Concrete, even in the presence of dense reinforcement.
- Concrete containing pozzolans such as microsilica, GGBFS, PFA including high volume fly ash concrete

## FEATURES AND BENEFITS

- Marked increase in early & ultimate strengths
- Total control on the slump at the time of placing
- Elimination of vibration and reduced labour cost in placing by implementing self compacting concrete
- Improved adhesion to reinforcing and stressing steel
- Better resistance to carbonation and other aggressive atmospheric conditions
- Lower permeability - increased durability

### SureTEC – Super Retention Technology:

SureTEC stands for Super Retention Technology. It is a concrete admixture technology that brings benefits to all concrete producers in terms of slump retention and early strength development. It assures concrete workability at the time of placing. With application of SureTEC, concrete producers gain control over the workability of concrete at the time of placing – far beyond previously known levels. No matter if low workability or high

performance self-compacting concrete, the placing workability remain unchanged from batch to batch. As a result concrete producers are enabled to provide a specified workability of concrete consistently, even if hot weather or traffic conditions or other factors make it difficult to estimate the time window between batching and placing.

SureTEC also provides value to the end customers. The excellence in terms of quality control of concrete at the same time assures consistency of workmanship, a decisive prerequisite for a long life-cycle of a concrete structure.

## PERFORMANCE TEST DATA

Aspect	: Light brown liquid
Relative Density	: $1.11 \pm 0.01$ at 25°C
pH	: $\geq 6$
Chloride ion content	: $< 0.2\%$

## TEST CERTIFICATION/APPROVALS

- ASTM C494 Type G
- EN 934-2 T11.1/11.2
- IS 9103

## DOSAGE

Optimum dosage of **MasterGlenium SKY 8763** should be determined with trial mixes. As a guide, a dosage range of 400ml to 1400ml per 100kg of cementitious material is normally recommended. Because of variations in concrete materials, job site conditions, and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local BASF representative.

For addition information on **MasterGlenium SKY 8763** admixture or on its use in developing concrete mixes with special performance characteristics, contact your local BASF representative.

### Effects of over dosage



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A severe over-dosage of **MasterGlenium SKY 8763** can result in the following:

- Extension of initial and final set
- Bleed/segregation of mix

A slight overdosing may not adversely affect the ultimate strength of the concrete and can achieve higher strengths than normal concrete, provided it is properly compacted and cured. Due allowance should be made for the effect of fluid concrete pressure on form work, and stripping times should be monitored.

In the event of over dosage, consult your local BASF representative immediately.

## APPLICATION

**MasterGlenium SKY 8763** is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticizing effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of **MasterGlenium SKY 8763** to dry aggregate or cement is not recommended. Automatic dispensers are available.

Thorough mixing is essential and a minimum mixing cycle, after the addition of the **MasterGlenium SKY 8763**, of 60 seconds for forced action mixers is recommended.

## SUGGESTED SPECIFICATION

The super-slump retaining hyperplasticizer shall be **MasterGlenium SKY 8763**, high range water reducing, Superplasticizer based on polycarboxylic

ether formulation. The product shall have specific gravity of 1.11 & solid contents not less than 33% by weight. The product shall comply with ASTM C494 Type G and shall be free of lignosulphonates, naphthalene salts and melamine formaldehyde when subjected to IR Spectra.

## COMPATIBILITY

**MasterGlenium SKY 8763** is compatible with most of the products under the MasterPozzolith & MasterSet series (formerly known as POZZOLITH). Use MasterMatrix 2 (formerly known as Glenium Stream 2) as viscosity modifying agent in self compacting concrete. It must not be used in conjunction with any other admixture unless prior approval is received from BASF Technical Services Department.

## CORROSIVITY – NON CORROSIVE

**MasterGlenium SKY 8763** admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressed concrete or concrete placed on galvanized steel floor and roof systems. Neither calcium chloride nor any calcium chloride-based ingredients are used in the manufacture of **MasterGlenium SKY 8763** admixture. In all concrete application, **MasterGlenium SKY 8763** admixture will conform to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices.

## WORKABILITY

**MasterGlenium SKY 8763** ensures that rheoplastic concrete remains workable in excess

### STATEMENT OF RESPONSIBILITY (Disclaimer)

The technical information and application advice given in this BASF Construction Chemicals 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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of 120 minutes at +25°C. Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability.

It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates.

## PACKAGING

**MasterGlenium SKY 8763** is supplied in 225 kg drums or in bulk on request.

## STORAGE /SHELF LIFE

**MasterGlenium SKY 8763** must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your local BASF representative.

## PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapor until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

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