

# MasterGlenium® SKY 8120

New generation superplasticising admixture developed for hot climates

## DESCRIPTION

**MasterGlenium SKY 8120** is a new generation superplasticiser developed for use in hot climate. It contains modified polycarboxylate ether and other polymers and is specially formulated to improve slump retention.

**MasterGlenium SKY 8120** is free of added chloride and has been formulated to comply with ASTM C494 for Type D and Type G admixtures. It is compatible with all kinds of cements that meet recognized international standards.

### Chemistry and Mechanism of Action

**MasterGlenium SKY 8120** is differentiated from conventional superplasticisers in that it is based on a polycarboxylate ether polymer with long lateral chains. This greatly improves cement dispersion. In addition, these polymers have been synthesized with “time release” technology to extend slump life. This provides long slump retention and good early strengths. At the start of the mixing process the same electrostatic dispersion occurs as described previously, but the presence of the lateral chains, linked to the polymer backbone, generate a steric hindrance with stabilises the cement particles capacity to separate and disperse. This mechanism provides flowable concrete with greatly reduced water demand.

## FIELDS OF APPLICATION

- ready mixed concrete
- mass concrete
- high strength concrete
- high flowability concrete
- high durability concrete
- long distance transport
- pumped concrete
- hot weather concreting

## FEATURES AND BENEFITS

<b>High water reduction</b>	High early and ultimate strengths. Low permeability, high durability concrete.
<b>Set retardation</b>	Extended setting time in hot weather
<b>High flowability</b>	Ease of placing and compaction. No segregation.
<b>Improved slump retention</b>	No re-tempering. Ease of delivery to point of placement

<b>Low shrinkage and creep</b>	Improves dimensional stability. Reduces risk of cracks.
<b>Good cohesion</b>	Ease of pumping. Reduced bleeding.
<b>Good workability</b>	Excellent surface appearance.
<b>High elastic modulus</b>	Superior load bearing capacity.

## APPLICATION

### Dispensing

**MasterGlenium SKY 8120** can be added into the mixing water or can be added to the wet concrete after the mixing water has been added. The addition of MasterGlenium SKY 8120 to a dry concrete mix is not recommended. A separate dispenser and feed line must be used.

## DOSAGE

Dosage of **MasterGlenium SKY 8120** depends on the mix design, ambient conditions and degree of water reduction, set retardation and workability required. The typical dose will be 800 to 1,600 mL/ 100 kg binder. Other dosages may also be used depending on the specific working conditions.

Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement.

## PACKAGING

**MasterGlenium SKY 8120** is available in 205L drums or in bulk delivery.

## SHELF LIFE

**MasterGlenium SKY 8120** can be stored for 6 months if stored at temperatures above 0°C, in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

## PRECAUTIONS

Health: **MasterGlenium SKY 8120** does not contain any hazardous substances requiring labeling.

It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions in the product Material Safety Datasheet.



We create chemistry

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## STATEMENT OF RESPONSIBILITY

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.

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## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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