

MasterGlenium® SKY 8585

New generation super plasticising admixture

DESCRIPTION

MasterGlenium SKY 8585 is a new generation superplasticiser for concrete. It contains polycarboxylate ether polymers and is specially formulated to give high water reduction and significantly reduced slump loss.

MasterGlenium SKY 8585 is free of chloride and has been formulated to comply with the requirements of ASTM C 494 for Type A, F and G admixtures. It is compatible with all cements meeting recognised international standards.

CHEMISTRY AND MECHANISM OF ACTION

MasterGlenium SKY 8585 is differentiated from conventional superplasticisers in that it is based on a modified polycarboxylate ether polymer. This greatly improves cement dispersion, and helps to reduce concrete viscosity at low slump.

Conventional superplasticisers, such as those based on sulphonated such as melamine and naphthalene formaldehyde condensates, at the time of mixing, become absorbed onto the surface of the cement particles. This absorption takes place at a very early stage in the hydration process. The sulphonic groups of the polymer chains increase the negative charge on the surface of the cement particle and dispersion of the cement occurs by electrostatic repulsion.

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 that stabilises the cement particles capacity to separate and disperse. This mechanism provides flowable concrete with greatly reduced water demand.

FIELDS OF APPLICATION

- Concrete with less water content than with conventional admixtures
- Faster mixing and placement
- High flow concrete
- High strength concrete
- Pumped concrete

FEATURES AND BENEFITS

High water reduction	High early and ultimate strengths. Low permeability, high durability concrete.
High flowability	Ease of placing and compaction. No segregation.
Good cohesion	Ease of pumping. No bleeding.
Good workability	Excellent surface appearance.

PERFORMANCE DATA

MasterGlenium SKY 8585 improves early and final strengths. It also improves slump retention and workability of the concrete more than traditional superplasticisers.

APPLICATION

MasterGlenium SKY 8585 is a ready to use admixture that is added to the wet concrete at the time of batching.

The maximum effect is achieved when **MasterGlenium SKY 8585** is added after the addition of 50% - 70% water.

MasterGlenium SKY 8585 must not be added to a dry concrete mix. A separate dispenser and feed line must be used.

DOSAGE

Typical dosage is from 800ml/kg to 1800ml/100kg of cementitious material. Other dosages may also be used depending on the specific working conditions.

Trial concrete mixes must be carried out to determine the appropriate dosage. Please contact BASF staff for further information.

PACKAGING

MasterGlenium SKY 8585 is available in 205L drums or bulk delivery.

SHELF LIFE

MasterGlenium SKY 8585 can be stored for 12 months if kept as recommended in the unopened original packaging at temperatures above 0°C.

PRECAUTIONS

Health: MasterGlenium SKY 8585 does not contain



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MasterGlenium[®] SKY 8585

any hazardous substances requiring labelling.

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 Data Sheet.

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.

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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