

GLENIUM[®] SKY 504 K

New polycarboxylic ether superplasticizer for the production of high quality ready-mix concrete with low water cement ratio and exceptional workability

DESCRIPTION

GLENIUM SKY 504 K is an innovative latest generation superplasticizer based on polycarboxylic ether (PCE) polymers. It is derived directly from the Total Performance Control[™] concept.

GLENIUM SKY 504 K is specially engineered for ready-mix concrete. Its particular configuration allows its delayed adsorption onto the cement particles and disperses them efficiently. As compared with other PCE superplasticizers, it is possible to obtain a high quality concrete mix with accelerated strength development and extended workability without delayed setting characteristics.

GLENIUM SKY 504 K may be used in combination with **MasterMatrix** for producing Smart Dynamic Concrete (SDC). The technology produces advanced self compacting concrete, without the aid of vibration. For economic, ecological and ergonomic ready-mix / precast concrete production.

FIELDS OF APPLICATION

GLENIUM SKY 504 K is used for the production of high quality ready-mix concrete.

GLENIUM SKY 504 K may be used in combination with **MasterMatrix** admixtures for producing Smart Dynamic Concrete, capable of self-compaction, even in the presence of dense reinforcement.

FEATURES AND BENEFITS

GLENIUM SKY 504 K offers the following benefits for:

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 without loss of workability
- 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

GLENIUM SKY 504 K is supplied in 210 litre drums, 1,000 litre containers or in bulk.

TYPICAL PROPERTIES*

Appearance	Straw to light brown coloured liquid
Specific gravity @ 25°C	1.100
pH value	5-8
Chloride ion content	0.01%

STANDARDS

ASTM C-494 Type F&G
ASTM C-1017 Type I & II

GLENIUM® SKY 504 K

APPLICATION PROCEDURE

Dosage

The normally recommended dosage rate of **GLENIUM SKY 504 K** is 0.8 to 2.5 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

GLENIUM SKY 504 K is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **GLENIUM SKY 504 K** 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.

COMPATIBILITY

GLENIUM SKY 504 K is not compatible with MasterRheobuild superplasticizers.

In order to optimize special requirements the use of the following complementary additives is suggested:

- Viscosity modifying agent **MasterMatrix** to produce Smart Dynamic Concrete.
- Air entraining agent **MasterAir** to improve frost/thaw resistance

STORAGE

GLENIUM SKY 504 K should be stored out of direct sunlight and protected from extremes of temperature. The shelf life is 1 year when stored as above.

HANDLING AND TRANSPORTATION

No special requirements must be observed during use. Protection gloves and glasses are however recommended. **GLENIUM SKY 504 K** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

SAFETY PRECAUTIONS

GLENIUM SKY 504 K 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 OHSAS 18001.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

BASF_CC-UAE/GI_SKY504K_03_06/v1/12_13

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

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