

PRODUCT DATA SHEET

Sika® ViscoCrete® SKY 8520

(formerly MasterGlenium® SKY 8520)

High-performance super plasticiser based on PCE (polycarboxylic ether) for concrete

DESCRIPTION

Sika® ViscoCrete® SKY 8520 is an admixture of a new generation based on modified polycarboxylic ether. The product has been primarily developed for applications in high performance concrete where the highest durability and performance is required.

Sika® ViscoCrete® SKY 8520 is free of chloride & low alkali. It is compatible with all types of cements.

USES

- Production of smart dynamic concrete & self-consolidation concrete.
- High performance concrete for durability
- High workability without segregation or bleeding
- Precast & Pre-stressed concrete
- Concrete containing pozzolans such as microsilica, GGBFS, PFA including high volume fly ash concrete

CHARACTERISTICS / ADVANTAGES

- Elimination of vibration and reduced labour cost in placing
- Marked increase in early & ultimate strengths
- Improved adhesion to reinforcing and stressing steel
- lower permeability - increased durability

APPROVALS / STANDARDS

IS 9103, ASTM C494 Type B, D & G

PRODUCT INFORMATION

Packaging	245kg drum
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	Sika® ViscoCrete® SKY 8520 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. 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 Sika representative.
Appearance / Colour	Reddish brown liquid
Density	1.11 ± 0.02 at 25°C
pH-value	≥ 6

APPLICATION INFORMATION

Recommended Dosage

Optimum dosage of Sika® ViscoCrete® SKY 8520 should be determined with trial mixes. As a guide, a dosage range of 300ml to 1800ml 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 Sika representative.

For addition information on Sika® ViscoCrete® SKY 8520 admixture or on its use in developing concrete mixes with special performance characteristics, contact your local Sika representative.

Effects of over dosage

A severe over-dosage of Sika® ViscoCrete® SKY 8520 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 Sika representative immediately.

Dispensing

Sika® ViscoCrete® SKY 8520 is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising 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 Sika® ViscoCrete® SKY 8520 to dry aggregate or cement is not recommended.

Thorough mixing is essential and a minimum mixing cycle, after the addition of the Sika® ViscoCrete® SKY 8520, of 60 seconds for forced action mixers is recommended.

Compatibility

Sika® ViscoCrete® SKY 8520 is compatible with most of the Sika products. It must not be used in conjunction with any other admixture unless prior approval is received from Sika Technical Services Department.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

CORROSIVITY – NON CORROSIVE

Sika® ViscoCrete® SKY 8520 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 Sika® ViscoCrete® SKY 8520 admixture. In all concrete application, Sika® ViscoCrete® SKY 8520 admixture will conform to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices.

WORKABILITY

Sika® ViscoCrete® SKY 8520 ensures that rheoplastic concrete remains workable for a long time. 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.

To achieve longer workability period please use Sika Plastiment retarder. It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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Product Data Sheet

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