

PRODUCT DATA SHEET

Sika® ViscoCrete® SKY 8585

(formerly MasterGlenium® SKY 8585)

PCE BASED SUPERPLASTICIZING AND SET RETARDING CONCRETE ADMIXTURE

DESCRIPTION

Sika® ViscoCrete® SKY 8585 is a 3rd generation polymer based high performance superplasticizer for producing soft consistency concrete.

Sika® ViscoCrete® SKY 8585 has no chloride content and meets the requirements of ASTM C 494 Type D & G.

USES

Sika® ViscoCrete® SKY 8585 is mainly suitable for the manufacture of concrete for RMC plant and site batch concrete.

Sika® ViscoCrete® SKY 8585 is used for the following types of concrete:

- Flowable concrete.
- Pumping concrete.
- Ground and suspended slabs.
- Columns and walls.

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® SKY 8585 combines different modes of actions. By adsorption on the surface of the fines and keeping them apart while the hydration is in progress, Sika® ViscoCrete® SKY 8585 effects the following concrete properties:

- Improve mortar phase when using coarse sand.
- Long slump keeping and high-water reduction.
- High flowability (considerably reduced placing and compacting work).
- Faster evolution of early strength development
- Workability can be maintained up to 3 hours (still depends on admixture dosage, cement type, temperature).
- Improved creep and shrinkage resistance characteristics
- When used at higher dosages, Sika® ViscoCrete® SKY 8585 can give extended working time.

PRODUCT INFORMATION

Chemical base	Aqueous solution of modified polycarboxylates
Packaging	200/1000 liters
Shelf life	12 months from date of production
Storage conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost. Always refer to the packaging. Frost: If frozen or if precipitation has occurred, the Product may be used after thawing slowly at room temperature and intensive mixing.

TECHNICAL INFORMATION

Concreting Guidance

- Follow the standard rules of good concreting practice for both production and placement.
- Carry out laboratory trials before concreting on site, especially when us-

- ing a new mix design or producing new concrete components.
- Carry out trials to confirm the flowability and workability of the concrete.
- Cure fresh concrete properly and apply curing as early as possible, particularly in hot, windy and dry conditions, as well as at low temperatures.

SYSTEM INFORMATION

Compatibility	Sika® ViscoCrete® SKY 8585 may be combined with all SikaPlast®, Sika® Aer, Sika® Pump, Sikacrete® PP1 products, but must be added separately to the mix and not pre-mixed prior its addition. Sika® ViscoCrete® SKY 8585 is compatible with all Portland Cement types.
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APPLICATION INFORMATION

Recommended Dosage	<ul style="list-style-type: none">▪ 0.5 - 2ltr per 100 kg of cement/binder. Typical 0.8 to 1.2 ltr/100kg of cement/binder. The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilized in special cases according to specific job conditions. Note: Preliminary laboratory trials are always recommended to determine the optimum consumption and injection parameters. Contact Sika Technical Services for additional information.
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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.

IMPORTANT CONSIDERATIONS

Overdosing will result in increased workability and setting time of the Concrete, however, if curing is effective, ultimate concrete strength and properties will not be affected.

Accurate dispensing equipment can be supplied by Sika Limited (Vietnam).

Use an appropriate concrete mixer and do not mix by hand.

Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

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.

APPLICATION INSTRUCTIONS

DISPENSING

Sika® ViscoCrete® SKY 8585 is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix.

For optimum utilization of the ultra-high range-water reducer we recommend a minimum wet mixing time of 60 seconds.

When adding the balance of the batching water to adjust concrete consistency this should be done after a minimum of 2/3 of the wet mixing time to avoid surplus water in the concrete.

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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