

PRODUCT DATA SHEET

Sika® ViscoCrete®-8900

ULTRA HIGH RANGE WATER REDUCER WITH HARDENING ACCELERATION EFFECT CONCRETE ADMIXTURE

DESCRIPTION

Sika® ViscoCrete®-8900 is a 3rd generation polymer based high performance superplasticizer with hardening acceleration effect for concrete.

Sika® ViscoCrete®-8900 meets requirement of ASTM C494 type F.

USES

Sika® ViscoCrete®-8900 is mainly suitable for the manufacture of concrete in precast factories and other in-situ precast concrete elements.

Sika® ViscoCrete®-8900 is used for the following types of concrete:

- High early strength/high performance precast concrete square pile
- Concrete with extreme water reduction
- Soft consistency concrete with extended working time, suitable for sheet pile, girder and high strength concrete pipe

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-8900 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®-8900 effects the following concrete properties:

- Extremely high water reduction (enhanced impermeability & strength of concrete produced)
- Faster development of early strength. Can reduce the time of steam curing process for getting early strength
- Workability can be maintained up to 90 minutes (depending on cement type, temperature and mix design)
- Improved creep and shrinkage resistance characteristics

PRODUCT INFORMATION

Chemical base	Modified Poly carboxylate in water
Packaging	200/1000 L
Shelf life	12 months if stored properly in original unopened packaging.
Storage conditions	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +30 °C.
Density	1.115–1.130 kg/l (At 20°C)
pH-Value	4.00–6.00 (At 25°C)

TECHNICAL INFORMATION

Concreting Guidance	Concrete placing: With the use of Sika® ViscoCrete®-8900, concrete of highest quality is being produced, however state of the art concrete tech-
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nology, such as mixing, placing vibrating and curing must be respected and applied.

Curing: Effective measures for concrete curing must be followed

Specific Advice

Sika® ViscoCrete®-8900 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.

APPLICATION INFORMATION

Recommended Dosage

0.5 – 2.0 L per 100 kg of cement/binder

Typical dosage: 0.7 – 1.2 L per 100 kg of cement/binder

Compatibility

Sika® ViscoCrete®-8900 may be combined with all Sikament, Sika® Aer, Sika® Pump, Sikacrete® PP-1 products, but must be added separately to the mix and not pre-mixed prior its addition.

Sika® ViscoCrete®-8900 is compatible with all Portland Cement types.

IMPORTANT CONSIDERATION

Overdosing will result in increased workability and setting time of the Concrete, however, provided that 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.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

Protective Measures: Avoid prolonged contact with skin. Wash off thoroughly with soap water.

In case of contact with eyes or mouth, rinse immediately with clean warm water and seek medical attention without delay.

Avoid contact with food stuff and utensils.

Ecology/ Waste disposal: Do not dispose of into water or soil, but according to local regulations

Transportation class: Non-hazardous

Toxicity: Non-toxic

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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