

PRODUCT DATA SHEET

Sika ViscoFlow[®]-3300

HIGH RANGE WATER REDUCING CONCRETE ADMIXTURE WITH ENHANCED WORKABILITY RETENTION

DESCRIPTION

Sika ViscoFlow[®]-3300 is a 3rd generation polymer based high performance superplasticizer for producing soft consistency concrete. It is particularly suited for use in concretes that require low water/cement ratios and / or high water reductions with excellent workability retention properties of up to 3 hours. Sika ViscoFlow[®]-3300 meets the requirements of ASTM C 494 type D & G.

USES

Sika ViscoFlow[®]-3300 is mainly suitable for the manufacture of concrete for RMC plants and site batch concrete.

Sika ViscoFlow[®]-3300 is used for the following types of concrete:

- Applications that require extended consistence retention without delayed setting;
- Suitability for use across broad range of consistence classes from S4 – SF3;
- High performance concrete;
- Self compacting concrete;
- High rise/pumped concrete;
- Slip form concrete;
- Improved effectiveness in higher ambient temperatures.

CHARACTERISTICS / ADVANTAGES

Sika ViscoFlow[®]-3300 combines different modes of actions. By adsorption on the surface of the fines and keeping them apart while the hydration is in progress, Sika ViscoFlow[®]-3300 effects the following concrete properties:

- Extended consistence retention;
- Improved cohesion properties;
- Improved early and ultimate strengths;
- Excellent placement characteristics;
- Improved rheology;
- Improved durability;
- Reduced segregation and bleeding;
- Reduced drying shrinkage.

Sika ViscoFlow[®]-3300 contains neither chlorides nor other corrosion inducing substances and can therefore be used without any restrictions for reinforced concrete structures.

PRODUCT INFORMATION

Chemical base	Modified Polycarboxylate in water
Packaging	200 / 1000 L
Appearance / Colour	Liquid / brownish
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	1.088 – 1.108 kg/l (At 20° C)
pH-Value	4.50 – 6.50 (At 25 °C)

TECHNICAL INFORMATION

Concreting Guidance	<p>Concrete placing: With the use of Sika ViscoFlow®-3300, concrete of highest quality is being produced, however state of the art concrete technology, such as mixing, placing, vibrating and curing must be respected and applied.</p> <p>Curing: Effective measures for concrete curing must be followed.</p>
Specific Advice	<p>Sika ViscoFlow®-3300 is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix.</p> <p>For optimum utilization of the ultra-high range water reducer we recommend a minimum wet mixing time of 60 seconds.</p> <p>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.</p>

APPLICATION INFORMATION

Recommended Dosage	0.5–2 L per 100 kg of cement/binder Typical 0.8–1.6 L per 100 kg of cement/binder
Compatibility	<p>Sika ViscoFlow®-3300 may be combined with all Sikament, Sika® Aer, Sika® Pump, Sikacrete® PP-1 products, but must be added separately to the mix and not premixed prior its addition.</p> <p>Sika ViscoFlow®-3300 is compatible with all Portland cement types.</p>

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 atten-

tion 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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