

PRODUCT DATA SHEET

Sika ViscoFlow[®]-5000 PH

WORKABILITY RETAINING ADMIXTURE

DESCRIPTION

Sika ViscoFlow[®]-5000 PH is a workability retaining admixture for use in various concrete applications.

USES

Sika ViscoFlow[®]-5000 PH can be used in conventional, high slump or Self Consolidating Concrete, in precast/prestress or ready mix applications, or in any application where extended concrete plasticity without excessive retardation is required.

Sika ViscoFlow[®]-5000 PH does not extend slump life by slowing down the hydration process of cement.

Due to the utilization of a new engineered time released polymer that allows for controlled and consistent slump extension with minimum initial slump increase, Sika ViscoFlow[®]-5000 PH makes it possible to transport freshly mixed concrete for longer distances without need of retempering at the job site.

Sika ViscoFlow[®]-5000 PH works as a slump retaining admixture, not as a conventional water reducer, making it more user friendly with a more predictable performance over time. This becomes a benefit in cases where time between concrete batching and concrete placement is inconsistent. Sika ViscoFlow[®]-5000 PH can be used as a stand alone additive or in combination with any Sika[®] concrete admixture.

CHARACTERISTICS / ADVANTAGES

Sika ViscoFlow[®]-5000 PH is unique concrete admixture used to improve workability and slump retention of freshly mixed concrete. Sika ViscoFlow[®]-5000 PH contains the latest time released polycarboxylate polymer technology, allowing for controlled slump extension depending on project needs and actual concreting conditions.

Sika ViscoFlow[®]-5000 PH typically does not significantly increase slump of the concrete mixture once introduced and properly mixed, but, rather, maintains concrete consistency for an extended period of time, resulting in a “flat” slump life performance.

Sika ViscoFlow[®]-5000 PH can be successfully used in various concrete applications, specifically whenever extended slump retention and concrete plasticity without set time delays is required.

Sika ViscoFlow[®]-5000 PH is engineered to maximize product performance and to deliver desired consistency across the wide variety of cementitious materials available on the market.

Sika ViscoFlow[®]-5000 PH is not a set retarding admixture.

Use of Sika ViscoFlow[®]-5000 PH offers the following benefits to a concrete producer:

- Extended slump retention without excessive set retardation
- Reduced or eliminated need for concrete retempering
- “Flat” slump life performance
- Better ability to optimize concrete mix designs, resulting in cost savings
- Ability to use higher content of supplementary cementitious materials due to improved production consistency
- Ability to adjust the slump retention accordingly to transportation time
- Easy and simple adjustment of concrete slump retention based on ambient temperatures
- Improved concrete consistency and reduced rejection rates due to issues related to concrete retempering.

PRODUCT INFORMATION

Chemical Base	Modified Polycarboxylate in water
Packaging	1000 Liter Bulk 210 Liter Drum
Shelf Life	12 months from the date of production when unopened
Storage Conditions	Store properly in undamaged, unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight.
Appearance / Colour	Dark Brown liquid
Specific gravity	≈1.117 (25°C)

APPLICATION INFORMATION

Recommended Dosage	Dosage rates of Sika ViscoFlow®-5000 PH will vary according to materials used, ambient conditions and the requirements of a specific project. Typically, Sika recommends dosage at 0.5% to 2% by weight of cementitious materials for general concrete applications. Dosage rates outside the recommended range may be used where specialized materials such as microsilica are specified, extreme ambient conditions are encountered or unusual project conditions require special consideration. In this case, contact your Sika Technical Sales Representative for further information. Verification of mix performance with actual materials in the field is always advised.
Compatibility	Sika ViscoFlow®-5000 PH can be used alone or in combination with other water reducing admixtures produced by Sika. If used with products based on naphthalene sulfonate, plastic properties such as slump, slump retention or pumpability of concrete may be affected. Please contact our technical services department for further information. In such a case, performance of actual mix design should be verified to confirm that it meets project specifications.

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.

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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

DISPENSING

For maximum efficiency, add Sika ViscoFlow®-5000 PH directly to freshly mixed concrete in the concrete mixer after all batching water and water reducing admixture has been added. Sika ViscoFlow®-5000 PH may also be dispensed into freshly mixed concrete in a readymix truck, though it is preferable to add it at the concrete plant. To optimize the slump-retaining effect, Sika recommends that the combined materials be mixed for 80–100 revolutions either in the concrete mixer or in the ready-mix truck.

LOCAL RESTRICTIONS

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

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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