

PRODUCT DATA SHEET

Sika ViscoFlow®-903

High Performance Workability Enhancing Superplasticizer

DESCRIPTION

Sika ViscoFlow®-903, a specially designed PCE based SuperPlasticizer to achieve a significantly enhanced slump flow retention without additional retardation

USES

Sika ViscoFlow®-903 is especially suitable for concrete mixes with extended workability requirements as well as improved flow characteristics.

Sika ViscoFlow®-903 is mainly used for the following types of concrete:

- Any concrete hot/cold weather with extended transportation and workability time
- Suitable for a wide range of applications with high or low W/C and /or high or low environment temperatures
- Define the workability time based on project requirements without a negative effect on early strength development

CHARACTERISTICS / ADVANTAGES

Sika ViscoFlow®-903 produces a more uniformly cohesive high quality free flowing concrete
Sika ViscoFlow®-903 will result in the following advantages of concrete:

- Improved dispersion properties
- Keeps workability for extended time
- Slump flow retention without additional retardation
- Constant slump flow
- Smooth concrete and concreting operations
- Improved rheology , it can be used for self-consolidated concrete
- Improved strength development
- Reduced drying shrinkage
- Improved durability

APPROVALS / STANDARDS

Conforms to EN 934-2., tab. 3.1/3.2 / ASTM C494 Type F

PRODUCT INFORMATION

Packaging	IBC	!!!MISSING VALUE!!!
	Barrel	!!!MISSING VALUE!!!
	Can	!!!MISSING VALUE!!!
	Refer to the current price list for available packaging variations.	
Appearance / Colour	!!!MISSING VALUE!!!	
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 +35 °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.	
Density	!!!MISSING VALUE!!!	(ISO 758)
pH-value	!!!MISSING VALUE!!!	

Total chloride ion content ≤ 0.1 % by mass

Equivalent Sodium Oxide ≤ 2.0 % by mass

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 using 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.

Specific Advice

- Excessive water addition or overdosing may cause bleeding, segregation and extension of setting-times.
- Due allowance should be made for the effect of fluid concrete pressure on formwork, and stripping times should be monitored.
- The product ensures that the concrete remains workable for a certain period. Workability loss depends on the following aspects:
 - temperature,
 - type of cement,
 - nature of aggregates,
 - method of transport,
 - and initial workability.
- To achieve longer workability period please use a setting retarder from the Sika® Retarder series.

APPLICATION INFORMATION

Recommended Dosage

- 0.3–2.0 kg per 100 kg 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.

SYSTEM INFORMATION

Compatibility

The Product is compatible with all standard cement types. For use with other cements contact your local Sika technical service for information. The Product can be combined and is recommended for use with other Sika products, such as:

- Sika® Retarder setting retarders
- SikaRapid® hardening accelerators
- Sika® Stabilizer workability improver, for example Sika® Stabilizer VMA series to modify viscosity
- SikaControl® durability and quality enhancer, for example SikaControl® AER series to improve frost and thaw resistance
- SikaFume® silica fume strength and durability enhancer
- Sika® Separol® mould release agents
- Sika® Antisol® curing compounds

The Product is not compatible with admixtures from the Sikament® range. Always conduct trials before combining different products.

Contact Sika Technical Services for additional information.

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

APPLICATION INSTRUCTIONS

MIXING

The Product is a ready-to-use liquid that is added to the concrete during the mixing process. Optimal water reduction is obtained if the Product is dispensed into the concrete mix after the addition of 50–90 % of mixing water. Avoid adding the Product to dry materials. The Product should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing the Product they must be dispensed separately.

After adding the Product allow enough mixing time to secure a homogenous concrete. If necessary, continue mixing and add additional Product to obtain the required workability.

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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