

PRODUCT DATA SHEET

Sika ViscoFlow®-23

pce superplasticizer with a high concentration for ready-mixed concrete

DESCRIPTION

Sika ViscoFlow®-23 is an economical superplasticizer for all areas of ready-mixed concrete.

USES

- Ready-mixed concrete of the consistency classes F3 to F6, ECC and SCC
- Ready-mixed concrete with optimum workability time
- Ready-mixed concrete with economic dosage levels
- Ready-mixed concrete with low w/c ratios

FEATURES

Sika ViscoFlow®-23 is based on the innovative Sika polymers, which has been specially designed and developed for the ready-mixed concrete industry. It causes:

- Spatial separation of fine parts
- Fast adsorption
- Lower frictional forces between the cement and aggregates
- Lower water requirements

This enables for concrete:

- Low w/c ratios with strong water reduction (therefore higher densities and strength)
- Soft consistencies through high flowability (hence reduced processing work)
- Good slump-keeping through high flowability (hence reduced processing work)
- Good slump-keeping and optimum workability, also at higher concrete temperatures
- No impairment of the early strength development, even in the winter

CERTIFICATES AND TEST REPORTS

Complies with EN 934-2 Table 2 (plasticizers) and tables 3.1/3.2 (superplasticizer).

Contains only components according to EN 934-1:2008, Annex A. 1.

Applicable in concrete with alkali-sensitive aggregates (Alkali Directive 4.3.2 (1)).

Complies with the requirements of the ZTV-ING. Can be used in all EU countries.

PRODUCT INFORMATION

Composition	Polycarboxylate ether
Packaging	Drum: 200 kg IBC: 1000 kg Bulk delivery: From 6 t
Shelf life	Minimum of 1 year shelf life in sealed containers. Mix before using after longer storage times.
Storage conditions	Protect against frost, strong sunlight and contamination. Utilise clean tanks and containers when delivered in bulk.
Appearance and colour	Liquid / lightyellow
Density	1.06 g/cm ³

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pH-Value	approx. 4.5
Total chloride ion content	≤ 0.10 %
Equivalent sodium oxide	≤ 1,0 %

APPLICATION INFORMATION

Recommended dosage	0.2 – 2.5 % of the cement weight
Dispensing	In the case of immediate addition in the works, we recommend that Sika ViscoFlow®-23 is mixed in at the end of the water addition to the concrete mixture and before other concrete additives. To obtain optimum utilisation of the liquefaction potential, we recommend a wet mixing time of at least 45 seconds with optimal mixing. Commence the fine water dosage after at least 2/3 of the wet mixing time to prevent too soft consistencies. With post-dosing on the building site, we recommend the use of the same superplasticizer as that utilised in the works. When adding to the truck mixer, a uniform distribution of the superplasticizer in the concrete must be ensured. For this purpose, we recommend that the superplasticizer is added on the concrete. The mixing time should be 1 minute per m ³ , however at least 5 minutes.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER INFORMATION

An initial test according to DIN EN 206-1/DIN 1045-2 is required before use.

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.

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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