

PRODUCT DATA SHEET

Sika ViscoFlow[®]-180

WORKABILITY-ENHANCING ADMIXTURE

DESCRIPTION

Sika ViscoFlow[®]-180 is a workability-enhancing admixture for use in various concrete applications (slump-keeper).

USES

Sika ViscoFlow[®]-180 can be used in conventional, high slump or Self-Compacting Concrete, in precast/prestressed or ready mix applications, or in any application where extended concrete plasticity without excessive retardation is required. Sika ViscoFlow[®]-180 does not extend slump life through slowing down the hydration process of cement. Besides the slump-retaining effect Sika ViscoFlow[®]-180 also offers a water-reducing effect, resulting in a lower dosage rate for the primary water reducer in the concrete mix. Sika ViscoFlow[®]-180 can be used as a stand-alone admixture or in combination with other Sika concrete admixtures.

CHARACTERISTICS / ADVANTAGES

Sika ViscoFlow[®]-180 is a unique concrete admixture used to improve the workability and slump retention of fresh concrete. Sika ViscoFlow[®]-180 uses innovative polycarboxylate polymer technology, which can be used in various concrete applications whenever extended slump retention and concrete plasticity without excessive set time delays is required.

Use of Sika ViscoFlow[®]-180 delivers the following benefits to a concrete producer:

- Extended slump retention without excessive retardation.
- Reduce or eliminate need for concrete re-tempering.
- Better ability to optimize concrete mix designs resulting in cost savings.
- Ability to adjust slump retention to match transport time and temperature.
- No deleterious effect on concrete shrinkage.
- Reduce rejection rates due to issues related to concrete-tempering.

PRODUCT INFORMATION

Chemical Base	Aqueous solution of modified polycarboxylates
Packaging	Bulk deliveries 1000 litre IBC 10 litre container
Appearance / Colour	Light brown liquid
Shelf Life	Store at temperatures between 5 °C and 35 °C in unopened original containers protected from direct sunlight, shelf life is at least one (1) year.
Storage Conditions	Store at temperature between 5°C and 35°C, protected from the direct sunlight.

APPLICATION INFORMATION

Recommended Dosage	Sika ViscoFlow®-180 recommended dosage is 200 ml to 3000 ml per 100kg of total cementitious material. Optimum dosage should be determined by site trials.
Compatibility	Sika ViscoFlow®-180 can be used in conjunction with all the Sika Concrete admixtures with the exclusion of Sikament NN. All admixtures must be added separately.
Dispensing	For maximum efficiency, add Sika ViscoFlow®-180 directly to freshly mixed concrete in the concrete mixer after all batching water and water reducing admixture has been added. Sika ViscoFlow®-180 may also be dispensed into freshly mixed concrete in the Agitator truck, at the concrete plant or at the job site. To optimize the slump retaining effect, Sika recommends that the combined materials should be mixed for 80-100 revolutions either in the concrete mixer or in the Agitator truck.

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.

FURTHER DOCUMENTS

May increase air content of concrete when used at normal dose

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

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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