

## PRODUCT DATA SHEET

# Sika ViscoFlow<sup>®</sup>-21 AU

### WORKABILITY-ENHANCING ADMIXTURE

#### DESCRIPTION

Sika ViscoFlow<sup>®</sup>-21 AU is a workability-enhancing admixture for use in various concrete applications (slump-keeper).

#### USES

Sika ViscoFlow<sup>®</sup>-21 AU 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<sup>®</sup>-21 AU does not extend slump life through slowing down the hydration process of cement. Besides the slump-retaining effect Sika ViscoFlow<sup>®</sup>-21 AU also offers a minimal water reducing effect, resulting in a lower dosage rate for the primary water reducer in the concrete mix. Sika ViscoFlow<sup>®</sup>-21 AU can be used as a stand-alone admixture or in combination with other Sika concrete admixtures.

#### FEATURES

Sika ViscoFlow<sup>®</sup>-21 AU is a unique concrete admixture used to improve the workability and slump retention of fresh concrete. Sika ViscoFlow<sup>®</sup>-21 AU uses innovative polycarboxylate polymer technology, which can be used in various concrete applications whenever extended slump retention and concrete plasticity without set time delay is required.

#### PRODUCT INFORMATION

<b>Composition</b>	Aqueous solution of selected modified polycarboxylates
<b>Packaging</b>	Bulk deliveries 1000 litre IBC
<b>Shelf life</b>	Stored at temperatures between 5°C and 35°C in unopened original containers protected from direct sunlight, shelf life is 12 months.
<b>Storage conditions</b>	Store at temperature between 5°C and 35°C, protected from the direct

Use of Sika ViscoFlow<sup>®</sup>-21 AU delivers the following benefits to a concrete producer:

- Extended slump retention without excessive retardation.
- No 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.
- Enhanced early and final strength.
- Reduced rejection rates due to issues related to concrete re-tempering.

#### CERTIFICATES AND TEST REPORTS

Sika ViscoFlow<sup>®</sup>-21 AU meets the requirements of AS1478.1-2000 for Special Purpose Admixture Type (SN).

	sunlight and frost.
<b>Appearance and colour</b>	Colourless clear liquid
<b>Density</b>	1.05 kg/l
<b>Recommended dosage</b>	Sika ViscoFlow®-21 AU recommended dosage is 200 ml to 1000 ml per 100kg of total cementitious material. Optimum dosage should be determined by site trials.
<b>Dispensing</b>	For maximum efficiency, add Sika ViscoFlow®-21 AU directly to freshly mixed concrete in the concrete mixer after all batching water and water reducing admixture has been added. Sika ViscoFlow®-21 AU 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.
<b>Compatibility</b>	Sika ViscoFlow®-21 AU can be used in conjunction with all the Sika Concrete admixtures with the exclusion of Sikament NN. All admixtures must be added separately.

## 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.

## 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.

## 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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