

PRODUCT DATA SHEET

Sika ViscoFlow[®]-21 AU IMPACT

WORKABILITY-ENHANCING ADMIXTURE

DESCRIPTION

Sika ViscoFlow[®]-21 AU IMPACT is a workability-enhancing admixture (slump-keeper) for use in various concrete applications, where extended slump life is required.

USES

Sika ViscoFlow[®]-21 AU IMPACT 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 set time delay. Sika ViscoFlow[®]-21 AU IMPACT does not extend slump life through slowing down the hydration process of cement. Sika ViscoFlow[®]-21 AU IMPACT can be used as a stand-alone admixture or in combination with other Sika concrete admixtures.

FEATURES

Sika ViscoFlow[®]-21 AU IMPACT is a unique concrete admixture used to improve the workability and slump retention of fresh concrete.

Use of Sika ViscoFlow[®]-21 AU IMPACT delivers the following benefits to a concrete producer:

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.
- Softer concrete.
- No deleterious effect on concrete shrinkage.
- **No slump/spread growth over time if it is used within the recommended dosage rates.**
- Enhanced early and final strength.
- Reduced rejection rates due to issues related to concrete re-tempering.
- Besides the slump-retaining effect, Sika ViscoFlow[®]-21 AU IMPACT also offers a minimal water reducing effect, resulting in a lower dosage rate for the

primary water reducer in the concrete mix.

SUSTAINABILITY

Product characteristics and benefits:

Sika ViscoFlow[®]-21 AU IMPACT is an innovative polycarboxylate polymer technology which enhances workability and slump retention of fresh concrete. By incorporating Sika ViscoFlow[®]-21 AU IMPACT into concrete mix, customers not only achieve superior workability but also contribute to climate change mitigation by reducing the product's carbon footprint. Sika ViscoFlow[®]-21 AU IMPACT admixture enables better optimisation of concrete mix designs, leading to significant cost savings and minimising the need for re-tempering. This efficiency not only enhances productivity for concrete producers but also supports sustainable construction practices by reducing material waste caused by inadequate slump retention.

Refer to the Sika Viscoflow-21 AU Impact Sustainable Fact Sheet for more information.

CERTIFICATES AND TEST REPORTS

Sika ViscoFlow[®]-21 AU IMPACT meets the requirements of AS1478.1-2000 for Special Purpose Admixture Type (SN).

PRODUCT INFORMATION

Composition	Aqueous solution of selected modified polycarboxylate polymers.
Packaging	Bulk deliveries 1000 litre IBC
Appearance and colour	Colourless clear liquid
Shelf life	Stored at temperatures between 5°C and 35°C in unopened original containers protected from direct sunlight, shelf life is 12 months.
Storage conditions	Store Sika ViscoFlow®-21 AU IMPACT at temperature between 5°C and 35°C, protected from the direct sunlight and frost.
Density	1.05 kg/l approximately
Recommended dosage	Sika ViscoFlow®-21 AU IMPACT recommended dosage is 200 ml to 800 ml per 100 kg of total cementitious material. Optimum dosage should be determined by site trials.
Compatibility	Sika ViscoFlow®-21 AU IMPACT 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®-21 AU IMPACT directly to freshly mixed concrete in the concrete mixer after all batching water and water reducing admixture has been added. Sika ViscoFlow®-21 AU IMPACT may also be dispensed into freshly mixed concrete in the agitator truck, at the concrete plant or at the job site. Allow time for the even dispersion of the admixtures.

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.

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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