

BUILDING PRODUCT INFORMATION SHEET

Sika ViscoFlow[®]-15

Workability-enhancing admixture

DESCRIPTION

Sika ViscoFlow[®]-15 is a workability-enhancing admixture for use in various concrete applications (slump-keeper).

USES

Sika ViscoFlow[®]-15 can be used in conventional, high slump or Self-Compacting Concrete, in precast/pre-stressed or ready mix applications, or in any application where extended concrete plasticity without excessive retardation is required. Sika ViscoFlow[®]-15 does not extend slump life through slowing down the hydration process of cement. Besides the slump-retaining effect Sika ViscoFlow[®]-15 also offers a water-reducing effect, resulting in a lower dosage rate for the primary water reducer in the concrete mix. Sika ViscoFlow[®]-15 can be used as a stand-alone admixture or in combination with other Sika concrete admixtures.

FEATURES

Sika ViscoFlow[®]-15 is a unique concrete admixture used to improve the workability and slump retention of fresh concrete. Sika ViscoFlow[®]-15 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[®]-15 delivers the following benefits to a concrete producer:

- Extended slump retention without excessive retardation.
- Reduced or eliminated 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.
- Reduced rejection rates due to issues related to concrete re-tempering.

APPROVALS / CERTIFICATES

Sika ViscoFlow[®]-15 meets the requirements of AS 1478.1-2000 for Special Purpose Admixture Type (SN).

PRODUCT INFORMATION

Product identifier	Sika ViscoFlow [®] -15
Place of manufacture	Aotearoa New Zealand
Composition	Aqueous solution of modified polycarboxylates
Packaging	Bulk delivery
Shelf life	At least one (1) year when stored as stated.
Storage conditions	Store at temperature between 5°C and 35°C, protected from the direct sunlight.
Appearance and colour	Colourless clear liquid
Specific gravity	1.05 g/cm ³

APPLICATION INFORMATION

Recommended dosage	Sika ViscoFlow [®] -15 recommended dosage is 200 ml to 1000 ml per 100kg of total cementitious material. Optimum dosage should be determined by site trials.
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Compatibility

Sika ViscoFlow®-15 can be used in conjunction with all the Sika Concrete admixtures. All admixtures must be added separately.

May increase air content of concrete when used at normal dose.

For maximum efficiency, add Sika ViscoFlow®-15 directly to freshly mixed concrete in the concrete mixer after all batching water and water reducing admixture has been added. Sika ViscoFlow®-15

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.

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information

Address

Sika (NZ) Limited
85-91 Patiki Road
Avondale, Auckland 1026
New Zealand

Phone number

0800 745 269

Website

<https://nzl.sika.com/>

Email address

info@nz.sika.com

NZBN

9429000018791

BUILDING CODE INFORMATION

Building Code clauses

Note: This product on its own is not within the scope of the NZ Building Code. It is an additive / admixture for use in the manufacture of concrete, to enhance its performance properties in either its plastic or hardened state. When added to concrete that must comply with the NZ Building Code, and it used in accordance with Sika's technical literature, it will contribute to meeting the requirements of the following clauses:

B1 Structure: Performance Clauses B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q) B1.3.4

B2 Durability: Performance clause B2.3.1-(a) not less than 50 years

F2 Hazardous Building Materials: Performance clause F2.3.1

Building Code compliance statements

Performance B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q), B1.3.4: This product meets the requirements of AS1478.1 Chemical Admixtures for Concrete, Mortar and Grout. When added to concrete during the production phase it contributes to the hardened concrete meeting loading requirements arising from self-weight, imposed gravity loads, earthquake, wind impact, and the effects of creep and shrinkage over time.

Performance B2.3.1 (a) 50 years: This product meets the requirements of AS1478.1 Chemical Admixtures for Concrete, Mortar and Grout. When added to concrete, mortar or grout during the manufacturing process it helps the hardened concrete to achieve its durability requirements and to remain serviceable for 50 years, or more. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2013.

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required

DESIGN REQUIREMENTS

Design requirements for concrete that contains Sika admixtures, or other concrete additives are the responsibility of the ready mixed concrete producer and/or the concrete design engineer.

MAINTENANCE REQUIREMENTS

Once added the Sika admixture / additive becomes an integral part of the hardened concrete, mortar or grout. Refer to the supplier of that product for their maintenance instructions.

BASIS OF PRODUCT DATA

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

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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 the 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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