

PRODUCT DATA SHEET

Sika ViscoFlow[®]-2020

WATER REDUCING AND WORKABILITY RETAINING ADMIXTURE

PRODUCT DESCRIPTION

Sika ViscoFlow[®]-2020 is a workability retaining admixture for use in concrete applications. This product meets the requirements of ASTM C494, Type A & S.

USES

Sika ViscoFlow[®]-2020 can be used in conventional, high slump, and Self Consolidating Concrete mixes, for precast/prestress, ready mix, or in any application when extended concrete plasticity without retardation is required. Sika ViscoFlow[®]-2020 does not extend slump life through slowing down hydration process of cement. Due to utilization of a new engineered time released polymer allowing controlled and consistent slump extension with minimum initial slump increase, Sika ViscoFlow[®]-2020 allows to transport freshly mixed concrete for larger distances without need of re-tempering at the job site. Sika ViscoFlow[®]-2020 works as a slump retaining admixture, not as conventional water reducer making it more user friendly with more predictable performance over time. This becomes a benefit in cases when time between concrete batching and concrete placement is inconsistent. Sika ViscoFlow[®]-2020 can be used as a stand-alone additive or in combination with any Sika concrete admixture.

CHARACTERISTICS / ADVANTAGES

Sika ViscoFlow[®]-2020 is unique concrete admixture used to control workability and slump retention of freshly mixed concrete. Sika ViscoFlow[®]-2020 contains the latest time released polycarboxylate polymer technology, allowing controlled slump extension depending on project needs and actual concreting conditions. Sika ViscoFlow[®]-2020 typically does not significantly increase slump of the concrete mixture once introduced and properly mixed, but rather maintains concrete consistency for an extended period of time, resulting in a "Flat" slump life performance. Sika ViscoFlow[®]-2020 can be successfully used in various concrete applications, specifically whenever extended slump retention and concrete plasticity without set time delays is required. Sika ViscoFlow[®]-2020 is engineered to maximize product performance and to deliver desired consistency across the wide variety of cementitious materials available on the market. Sika ViscoFlow[®]-2020 is not a retarding admixture.

Use of Sika ViscoFlow[®]-2020 offers the following benefits to a concrete producer:

- Extended slump retention without excessive retardation.
- Reduce or eliminate the need for concrete re-tempering.
- "Flat" slump life performance.
- Better ability to optimize concrete mix designs resulting in cost savings.
- Ability to use higher content of supplementary cementitious materials due to improved production consistency.
- Ability to adjust the slump retention accordingly to transportation time.
- Easy and simple adjustment of concrete slump

- retention based on ambient temperatures.
- Improved concrete consistency and reduced rejection rates due to issues related to concrete re-tempering.

PRODUCT INFORMATION

Packaging	Sika ViscoFlow®-2020 is available in 55 gallon drums (208 liters), 275 gallon totes (1040 liters) and bulk delivery.
Appearance / Color	Pale Green Liquid
Shelf Life	Shelf life when stored in dry warehouse conditions between 40 °F and 80 °F (5–27 °C) is 1 year. Protect from direct sunlight. If exposed to direct sun, color fading may be observed. Color change does not effect the performance.
Storage Conditions	Sika ViscoFlow®-2020 should be stored at above 40 °F (5 °C). If frozen, thaw and agitate thoroughly to return to normal state.
Specific Gravity	Approx. 1.04

APPLICATION INFORMATION

Recommended Dosage	<p>Dosage rates of Sika ViscoFlow®-2020 will vary according to materials used, ambient conditions and the requirements of a specific project. Typically, Sika recommends dosage at 2-8 fl. oz. per 100 lbs. (130–520 ml/100 kg) of cementitious materials for general concrete applications. If maximum slump retention is required dosage up to 15 fl. oz./100 lbs. (975 ml/100 kg) of cementitious may be used. Dosage rates outside the recommended range may be used where specialized materials such as microsilica are specified, extreme ambient conditions are encountered or unusual project conditions require special consideration.</p> <p>In this case please contact your local Sika representative regional office or technical service department at 1-800-933-7452. Verification of mix performance with actual materials is always highly recommended.</p>
Mixing	<p>For maximum efficiency, add Sika ViscoFlow®-2020 directly to freshly mixed concrete in the concrete mixer after all batching water and water reducing admixture has been added. Sika ViscoFlow®-2020 may also be dispensed into freshly mixed concrete in a Ready Mix truck. It is preferred to add Sika ViscoFlow®-2020 at the concrete plant but job site addition is also possible. 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 Ready Mix truck.</p> <p>Combination with other admixtures: Sika ViscoFlow®-2020 can be used as a single admixture or in combination with other water reducing admixtures produced by Sika. If used with products based on naphthalene sulfonate, plastic properties such as slump, slump retention or pumpability of concrete may be affected. Please contact your local regional office or technical service department at 1-800-933-7452 for further information. Sika ViscoFlow®-2020 can be used in combination with other supplementary cementitious materials. In such a case performance of actual mix design should be verified to confirm accordance with project specifications.</p>

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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Product Data Sheet
Sika ViscoFlow®-2020
August 2019, Version 01.03
021301011000001642

SikaViscoFlow-2020-en-US-(08-2019)-1-3.pdf

