

## PRODUCT DATA SHEET

# Sika ViscoFlow®-2020

### WATER REDUCING AND WORKABILITY RETAINING ADMIXTURE

#### PRODUCT DESCRIPTION

Sika ViscoFlow®-2020 is a water reducing and workability retaining admixture utilizing Sika ViscoFlow technology. Sika ViscoFlow®-2020 meets the requirements of ASTM C494/AASHTO M 194, Type A, F & S.

#### USES

Sika ViscoFlow®-2020 is designed for use in both ready mix and precast applications whenever extended workability, high plasticity, and increased early/ultimate strengths are required. Sika ViscoFlow®-2020 can be used for production of SCC (Self-Consolidating Concrete) as well as for production of conventional slump concrete.

#### CHARACTERISTICS / ADVANTAGES

Various levels of water reduction and workability retention can be achieved by adjusting the dosage rate of Sika ViscoFlow®-2020.

At lower dosage rates Sika ViscoFlow®-2020 provides mild to moderate water reduction with some extended workability. At higher dosage rates, or when used in combination with other water reducing admixtures, Sika ViscoFlow®-2020 provides high range water reduction with greater workability retention and the superplasticizing action allows for the production of high slump/flow concrete that can typically be placed with minimal or no vibration even at an extremely low water/cementitious ratio.

Concrete produced with Sika ViscoFlow®-2020 typically maintains consistency and workability for longer periods. The combined water reducing and superplasticizing action of Sika ViscoFlow®-2020 provides the following benefits:

- Reduced water cement ratios produce more durable, dense concrete with reduced permeability and shrinkage,
- Consistent and predictable slump life performance,
- Reduced concrete stickiness results in lower pumping pressures,
- Improved finishability of concrete,
- Increased early and ultimate strengths allow faster structural use of concrete,
- Minimal effect on setting times at lower dosage rates,
- Increased slump and workability improves efficiency of labor and reduces labor costs,
- Minimizes or eliminates the need for concrete retempering.

Sika ViscoFlow®-2020 does not contain intentionally added chlorides.

#### ENVIRONMENTAL INFORMATION

Lower carbon footprint through reduction in cementitious materials. Less water consumed per volume of concrete.

A Manufacturer Inventory is available for Sika ViscoFlow®-2020.

## PRODUCT INFORMATION

<b>Packaging</b>	Available in 55-gallon (208-liter) drums, 275-gallon (1040-liter) totes and bulk delivery.
<b>Shelf Life</b>	Shelf life when stored in original packaging in dry warehouse conditions between 40°F and 80°F (5-27°C) is one year from the date of manufacture.
<b>Storage Conditions</b>	Sika ViscoFlow®-2020 should be stored above 40°F (5°C). If frozen, thaw and agitate thoroughly to return to a normal state. Protect from direct sunlight.
<b>Appearance / Color</b>	Pale Green Liquid
<b>Specific gravity</b>	Approx. 1.054

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	<p>The typical dosage rate of Sika ViscoFlow®-2020 will vary between 2-8 fl oz / 100 lb. (130-520 mL / 100 kg) of cement or cementitious materials. If maximum water reduction or workability retention is required, dosage rates up to 15 fl oz / 100 lb. (975 mL / 100 kg) of cement or cementitious materials may be used. Various factors will affect the dosage rates.</p> <p>Trial mixes with the actual materials should be conducted to determine the required dosage for optimum performance.</p> <p>To the extent specialized materials are used, extreme ambient temperatures are encountered, or for other unusual project conditions, dosage rates outside the typical range may be required. For dosage rates outside the typical range, please contact your local Sika representative or the Sika Technical Services Department at 1-800-933-7452.</p>
<b>Mixing</b>	<p>Measure the required quantity manually or by automated dispenser. Add Sika ViscoFlow®-2020 directly into the freshly mixed concrete, or as an integral material in the batching cycle. Do NOT mix with dry cement. Sika ViscoFlow®-2020 may be dispensed on-site directly prior to placement. Care must be taken to mix thoroughly. When used in combination with other admixtures dispense each admixture separately into the mix.</p> <p><b>Compatibility:</b> Sika ViscoFlow®-2020 can be used in combination with other Sika admixtures and can be successfully used in mix designs utilizing supplementary cementitious materials.</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.

any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## 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

## 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](http://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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