



## PRODUCT DATA SHEET

# Sika ViscoFlow<sup>®</sup>-2050

### EXTENDED WORKABILITY RETAINING ADMIXTURE

#### PRODUCT DESCRIPTION

Sika ViscoFlow<sup>®</sup>-2050 is a workability retaining admixture which aids in attaining a flexible degree of slump retention without any retardation.

#### WHERE TO USE

Sika ViscoFlow<sup>®</sup>-2050 is designed to use in applications where a flexible slump retention is required over a prolonged period of time. Sika ViscoFlow<sup>®</sup>-2050 is designed for use in both ready mix and precast applications whenever extended workability, high plasticity, and increased early/ultimate strengths are required when combined with ViscoCrete HRWR's. Sika ViscoFlow<sup>®</sup>-2050 can be used for production of SCC (Self-Consolidating Concrete) as well as for production of conventional slump concrete.

#### CHARACTERISTICS / ADVANTAGES

Various levels of workability retention can be achieved by adjusting the dosage rate of Sika ViscoFlow<sup>®</sup>-2050. When used in combination with other Sika water reducing admixtures, Sika ViscoFlow<sup>®</sup>-2050 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.

#### PRODUCT INFORMATION

CSC MasterFormat<sup>®</sup>

03 05 00 | SPECIAL-APPLICATIONS

Concrete produced with Sika ViscoFlow<sup>®</sup>-2050 typically maintains consistency and workability for longer periods and provides the following benefits:

- Consistent and predictable slump life performance,
- Reduced concrete stickiness allowing lower pumping pressures,
- Improved finishability of concrete,
- Minimal effect on setting times at lower dosage rates,
- Minimizes or eliminates the need for concrete retempering.

#### ENVIRONMENTAL INFORMATION

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

#### APPROVALS / CERTIFICATES

Sika ViscoFlow<sup>®</sup>-2050 meets the requirements of ASTM C494, Type S.

<b>Packaging</b>	Available in 205-litre drums, 1040-litre totes and bulk delivery.
<b>Shelf Life</b>	Shelf life when stored in original packaging in dry warehouse conditions between 5-27°C is one year from the date of manufacture.
<b>Storage Conditions</b>	Sika ViscoFlow®-2050 should be stored above 5°C. If frozen, thaw and agitate thoroughly to return to a normal state. Protect from direct sunlight.
<b>Appearance / Colour</b>	Light Grey
<b>Specific Gravity</b>	1.058

## APPLICATION INFORMATION

<b>Mixing</b>	<p>The typical dosage rate of Sika ViscoFlow®-2050 will vary between 100-500 mL / 100 kg of cement or cementitious materials dependent upon type of cement used and desired slump retention. Various factors will affect the dosage rates.</p> <p>It is recommended to conduct trial mixes with the actual materials to determine the required dosage for optimum performance. Dosage rates outside of the typical range may be used, please contact your local regional Sika Representative prior to using the Sika admixture.</p>
<b>Compatibility</b>	Sika ViscoFlow®-2050 can be used in combination with other Sika admixtures and can be successfully used in mix designs utilizing supplementary cementitious materials. Sika ViscoFlow®-2050 should be always introduced after the water reducers.

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## 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 exact product data and uses.

## ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### MIXING

Measure the required quantity manually or by automated dispenser. Add Sika Sika ViscoFlow®-2050 directly into the freshly mixed concrete, or as an integral material in the batching cycle. Do NOT mix with dry cement. Sika Sika ViscoFlow®-2050 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.

## 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

### **Sika Canada Inc.**

Head Office  
601, avenue Delmar  
Pointe-Claire, Quebec  
H9R 4A9  
1-800-933-SIKA  
[www.sika.ca](http://www.sika.ca)

### **Other locations**

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

### **Product Data Sheet**

Sika ViscoFlow®-2050  
April 2024, Version 01.02  
021301011000004878

