



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.

WHERE TO USE

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 allowing 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.

APPROVALS / CERTIFICATES

Sika ViscoFlow®-2020 meets the requirements of ASTM C494/AASHTO M 194, Type A, F & S.

PRODUCT INFORMATION

Packaging	Available in 208-litre drums, 1040-litre totes and bulk delivery.
Shelf Life	Shelf life when stored in original packaging in dry warehouse conditions between 5-27°C is one year from the date of manufacture.
Storage Conditions	Sika ViscoFlow®-2020 should be stored above 5°C. If frozen, thaw and agitate thoroughly to return to a normal state. Protect from direct sunlight.
Appearance / Colour	Pale Green Liquid
Specific Gravity	Approx. 1.054

APPLICATION INFORMATION

Recommended Dosage

The typical dosage rate of Sika ViscoFlow®-2020 will vary between 130-520 mL / 100 kg of cement or cementitious materials. If maximum water reduction or workability retention is required, dosage rates up to 975 mL / 100 kg of cement or cementitious materials may be used. Various factors will affect the dosage rates. Dosage rates outside of the typical range may be used.

It is recommended to conduct trial mixes with the actual materials to determine the required dosage for optimum performance.

To the extent specialized materials (such as microsilica) are specified, extreme ambient project conditions are encountered, or other unusual project conditions require special consideration outside the recommended dosage, please contact your local regional Sika Representative prior to using the Sika admixture.

Mixing

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.

Compatibility: Sika ViscoFlow®-2020 can be used in combination with other Sika admixtures and can be successfully used in mix designs utilizing supplementary cementitious materials.

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.

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

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Product Data Sheet

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