

## PRODUCT DATA SHEET

# Sika ViscoFlow<sup>®</sup>-3020 WF

high range water reducing / superplasticising concrete admixture

### DESCRIPTION

Sika ViscoFlow<sup>®</sup>-3020 WF is a concrete and mortar admixture that significantly reduces the need for water, enabling the industrial, economical, and high-quality production of both normal concrete mixes and self-compacting concrete.

### USES

Sika ViscoFlow<sup>®</sup>-3020 WF is suitable for use especially as an admixture in the production of ready-mixed concrete when a relatively long working time is desired, along with good strength development, significant water reduction, and good workability of the concrete. Sika ViscoFlow<sup>®</sup>-3020 WF admixture is primarily used in the following applications:

- At ready-mix concrete plants – especially in cool weather and during long delivery distances
- In floor concrete
- At ready-mix concrete plants, especially in large cast-in-place applications, where good pumpability and long working time are required
- In self-compacting concrete

### PRODUCT INFORMATION

<b>Composition</b>	Modified polycarboksylate
<b>Packaging</b>	20 kg can, 200 kg drum, 1 000 kg IBC or in tanker truck as bulk delivery.
<b>Appearance and colour</b>	Blurry light beige liquid.
<b>Shelf life</b>	9 months from the date of manufacture when the product has been properly stored in its original, unopened packaging.
<b>Storage conditions</b>	Store in a frost-free environment between +1°C and +30°C. Protect from direct sunlight and contamination (foreign matter, pollen, etc.). Use plastic, fiberglass or acid-resistant steel tanks. It is recommended to mix the product with a mechanical mixer or “circulation pump” daily during

### FEATURES

Sika ViscoFlow<sup>®</sup>-3020 WF is a powerful superplasticizer that operates through several different mechanisms. By slowing down the active sites of the cement, through surface adsorption, electrostatic repulsion, and steric repulsion, it achieves the dispersion of cement/binder particles and the following properties:

- High water reduction, leading to greater density, higher strength, and lower permeability
- Excellent plasticizing effect, resulting in better workability of the mix, easier handling during pouring, and compaction
- Reduced shrinkage of the concrete during curing and in its hardened state
- Less need for curing along with higher quality and early strength.

### CERTIFICATES AND TEST REPORTS

Sika ViscoFlow<sup>®</sup>-3020 WF is a high range water reducing / superplasticising concrete admixture according to EN 934-2:2009 T3.1/3.2 + A1:2012 and CE marked.

use. The product should not be mixed with compressed air to avoid separation.

Density	1,045 kg/dm <sup>3</sup> ± 0,020 kg/dm <sup>3</sup>
pH-Value	6,5 ± 1,0
Conventional dry material content	19,5% ± 0,8%
Total chloride ion content	≤ 0,10 mass-%
Equivalent sodium oxide	< 1,00 mass-%

## APPLICATION INFORMATION

Recommended dosage	The recommended dosage is approximately 0.3 - 2.0% by weight of the binder, depending on the desired effect. Carry out preliminary tests on the cement/binders and aggregates to be used.
Dispensing	Sika ViscoFlow <sup>®</sup> -3020 WF is added at the earliest together with the mixing water. It is recommended that Sika ViscoFlow <sup>®</sup> -3020 WF is added approximately 10-20 seconds after the water has been added in order to achieve the full benefit of the admixture. The recommended wet mixing time is at least 45-180 seconds, depending on the mixer type.
Compatibility	The effect of Sika ViscoFlow <sup>®</sup> -3020 WF may vary with different cements, binder compositions, concrete proportions and processing methods. Sika Sika ViscoFlow <sup>®</sup> -3020 WF can be used with other Sika admixtures in separate dosages. Please consult our technical service. Carry out preliminary tests.

## BASIS OF PRODUCT DATA

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

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the latest Safety Data Sheet, which contains information on physical, ecological, toxicological and other safety-related issues.

## APPLICATION INSTRUCTIONS

The rules of good concreting practice (preparation and casting) must be followed. Preliminary tests must be carried out before actual concrete castings - especially when changing to a new concrete mix design or changing to other concrete raw materials. Fresh concrete must be cured appropriately and as early as possible.

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## 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.

## 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.

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