

PRODUCT DATA SHEET

Sika ViscoFlow®-360 Plus

Superplasticizer / High-Range Water Reducer with Extended Workability Retention.

DESCRIPTION

Sika ViscoFlow®-360 Plus is an improved, new generation, superplasticizer/high-range water-reducing admixture based on modified polycarboxylate technology. It provides concrete with long to very long rheology retention without causing setting retardation. Sika ViscoFlow®-360 Plus produces fresh concrete with low viscosity and is compatible with all types of cement.

USES

Sika ViscoFlow®-360 Plus enables the production of concrete ranging from S3 consistency class to self-compacting concrete (SCC), suitable for transportation over very long distances.

- Concrete with very low viscosity.
- Concrete pumped over very long distances.
- Concrete placement in hot weather.
- Concrete for heavily reinforced structures.
- Concrete with a low water-to-cement (W/C) ratio.

FEATURES

Sika ViscoFlow®-360 Plus, through its specific action provides,

- very long workability retention and produces low-viscosity concrete.
- even at low water-to-cement (W/C) ratios.

Sika ViscoFlow®-360 Plus is compatible with a wide range of cements, including those with low or high alkali content.

PRODUCT INFORMATION

Composition	Blend of different Polycarboxylates(PCE) and other additives.
Packaging	▪ 1000 litres IBC, ▪ 200 litres Drum, ▪ 25 litres Keg

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Colour	Dark Brown.
Shelf life	12 months minimum from production date.
Storage conditions	Should be stored properly in original unopened, sealed and undamaged packaging. Store in a dry area between 5°C and 35 °C. Protect from direct sunlight.
Density	1,09 ± 0,01
pH-Value	5.5 +/- 0.05
Total chloride ion content	≤ 0.1 %.
Soluble chloride ion content	≤ 1 %
Concreting guidance	The standard rules of good concreting practice, concerning production, and placing, are to be followed. Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible.

APPLICATION INFORMATION

Mixing ratio	Sika ViscoFlow®-360 Plus can be added either at the same time as the mixing water or later, to the concrete that has been pre-wetted with a portion of the mixing water. Precautions for Use: In case of contact with the skin, wash thoroughly with plenty of water.
Recommended dosage	Recommended dosage of Sika ViscoFlow®-360 Plus: 0.2 – 2.0%.
Compatibility	Sika ViscoFlow®-360 Plus may be combined with the following products: ▪ Plastiment® VZ ▪ Sika® Fume ▪ SikaFibre® Do not use viscoflow series combined with Sikament® series. To produce flowing and / or self-compacting concrete, special concrete mix design is required. Pre-trials are recommended and mandatory if combinations with the above products are required. Please consult to our Technical Service Department.
Dispensing	In the case of immediate addition in the works, we recommend that Sika ViscoFlow®-360 Plus is mixed in at the end of the water addition to the concrete mixture and before other concrete additives. To obtain optimum utilization of the liquefaction potential, we recommend a wet mixing time of at least 30 seconds with optimal mixing. Commence the fine water dosage after at least 2/3 of the wet mixing time to prevent too soft consistencies. With post-dosing on the building site, we recommend the use of the same superplasticizer as that utilised in the works. When adding to the truck mixer, a uniform distribution of the superplasticizer in the concrete must be ensured. For this purpose, we recommend that the superplasticizer is added on the concrete. The mixing time should be 1 minute per m³, however at least 5 minutes

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.

age and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, stor-

APPLICATION

Sika® Viscoflow® -360 Plus is added either at the same time as the mixing water or at a later stage to concrete that has been pre-moistened with a part of the mixing water.

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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