

PRODUCT DATA SHEET

Sika ViscoFlow[®]-3000

High range water reducing/superplasticising concrete admixture with fast absorption characteristics

PRODUCT DESCRIPTION

Sika ViscoFlow[®]-3000 is a liquid admixture for concrete based on unique polycarboxylate polymer technology. Sika ViscoFlow[®]-3000 is designed as a high range water reducer or superplasticiser. It is particularly suited for use in concretes that require low water/cement ratios and / or high water reductions. The product provides fast adsorption resulting in highly efficient dispersion and potential reduction in mixing time.

USES

- Sika ViscoFlow[®]-3000 is a unique product that is suitable for the production of ready mixed concrete
- Ideally suited for use in SCC and flowing concretes
- Suitability for use across broad range of consistence classes from S3 – SF3
- High performance concrete
- High rise/pumped concrete
- Slip form concrete
- Improved effectiveness in higher ambient temperatures

PRODUCT INFORMATION

Chemical Base	Modified polycarboxylate
Packaging	20 litre drum, 1000 litre IBC
Appearance / Colour	Light straw
Shelf Life	12 months from date of production if stored properly in undamaged containers.
Storage Conditions	Store in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.
Density	1.05 kg/l (at +20°C)
pH-Value	5.0 +/- 1.0

CHARACTERISTICS / ADVANTAGES

- High range water reductions resulting in higher strengths and densities
- Improved mixing times
- Improved cohesion properties
- Improved early and ultimate strengths
- Excellent placement characteristics
- Improved rheology
- Improved durability
- Reduced segregation and bleeding
- Reduced drying shrinkage
- Reduced mix costs

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Tables 3.1 & 3.2

DoP 14836904, certified by Factory Production Control Body 1029 and provided with the CE mark

DoP 63769647, certified by Factory Production Control Body 0120 and provided with the UKCA mark

Total Chloride Ion Content	<0.1% w/w (chloride free)
Equivalent Sodium Oxide	<0.25% w/w (alkali content)

TECHNICAL INFORMATION

Specific Advice	Freezing Point: +1°C Air Entrainment: Negligible, minimal increase Effect of Setting: Minimal effect Effect of Overdosing: Increased workability and segregation
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APPLICATION INFORMATION

Recommended Dosage	0.5 - 1.5% by weight of cement
Compatibility	Sika ViscoFlow®-3000 may be combined with many other Sika products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.
Dispensing	Sika ViscoFlow®-3000 should be dispensed through suitable calibrated dosing equipment. Sika ViscoFlow®-3000 is added to the gauging water or added with it into the concrete mixer.

VALUE BASE

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

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

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

Application Method / Tools

- The standard rules of good concreting practice, concerning production and placing, are to be followed.
- Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components.
- Fresh concrete must be cured properly and curing applied as soon as possible.

Notes on Application / Limitations

- When using Sika ViscoFlow®-3000 a suitable mix design has to be taken into account and local material sources shall be trialled.
- Sika ViscoFlow®-3000 shall not be added to dry cement.
- Excessive water addition or overdosing may cause bleeding or segregation.
- Support from our Technical Service Department is recommended.
- If frozen and / or if precipitation has occurred, Sika ViscoFlow®-3000 may be used after thawing slowly at room temperature followed by intensive remixing.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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