

PRODUCT DATA SHEET

Sika ViscoFlow[®]-3800

Mid-High Range Water-reducing and workability-Enhancing Concrete Admixture

DESCRIPTION

Sika ViscoFlow[®]-3800 is a specially designed polycarboxylic polyether-based superplasticizer (PCE) to achieve a significantly enhanced slump retention.

USES

Sika ViscoFlow[®]-3800 is suitable for the production of site mix as well as ready-mix concrete, use for concrete with extended transportation or placing time and facilitates medium to high water reduction, good flow properties, optimal cohesion behaviour.

Sika ViscoFlow[®]-3800 used for the following types of concrete:

- Hot weather concrete and concrete with extended transportation or placing time
- Concrete with low to medium w/c ratio
- Suitable for medium to high workability concrete
- High strength concrete application

CHARACTERISTICS / ADVANTAGES

Sika ViscoFlow[®]-3800 acts by different mechanisms, through surface absorption and sterical separation effect on the cement particles, in parallel to the hydration process, the following properties are obtained:

- Medium to high water reduction rate
- Excellent slump keeping characteristics with near neutral setting time
- Improved shrinkage and creep behaviour
- Reduced rate of carbonation of the concrete

Sika ViscoFlow[®]-3800 does not contain chloride or other steel corrosion promoting ingredients. It may therefore be used without any restriction for reinforced and prestressed concrete construction.

APPROVALS / STANDARDS

Comply with BS EN 934

PRODUCT INFORMATION

Packaging	205 litre drum or bulk delivery
Appearance / Colour	Yellowish brown liquid
Shelf Life	12 months from date of production
Storage Conditions	Store properly in undamaged and unopened original sealed packing in cool and dry conditions. Protect from direct sunlight and frost.
Specific gravity	1.050 ± 0.02 kg/litre

APPLICATION INFORMATION

Recommended Dosage	Up to 1.5% by weight of total cementitious content depends on different type of application. It is advisable to carry out trial mixes to establish the exact dosage rate required. Effects of overdosing and underdosing: Significant overdosage will result in increased workability and setting time of the concrete. Underdosage will result in reduced workability (more difficult placing) and shorter setting times (reduced workable lives). However, provided the concrete is cured effectively, ultimate strength and properties will not be affected.
Compatibility	Sika ViscoFlow®-3800 is compatible with all types of cementitious products. Sika ViscoFlow®-3800 is compatible in concrete with all Sika's admixture types currently available, but must be added separately to the mix and not premixed prior.
Dispensing	Sika ViscoFlow®-3800 is added to the gauging water or simultaneously with it pour into the concrete mixer. For optimum utilization of the product we recommended thorough mixing until homogeneous.

BASIS OF PRODUCT DATA

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

For information and advice on the safe handling, storage 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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,
6 On Ping Street, Shatin, N.T., H.K.
Phone: +852 26868108
Fax: +852 26453671
Mail: marketing@hk.sika.com
Website: www.sika.com.hk



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