

# Sika® ViscoCrete®-3088

## High range water reducing concrete admixture

### Product Description

Sika® ViscoCrete®-3088 is a high range water reducing admixture with retarding properties for concrete and mortar. It meets the requirements for set retarding / superplasticizing admixtures according to EN 934-2: 2001.

### Uses

Sika® ViscoCrete®-3088 is used for the production of site batched and ready mix concrete with extended workability and when required for long transport distances.

Sika® ViscoCrete®-3088 is recommended for:

- Concrete with the highest possible water reduction (up to 30%)
- High performance concrete
- Hot weather concreting and concrete with a long transport time and/or extended workability
- High fines concrete (such as with blended cements)
- Concrete produced with very reactive cement

### Characteristics / Advantages

Through surface absorption and sterical effects separating the binder particles, the following properties are achieved:

- Extremely powerful water reduction (thereby creating high concrete density and high strengths)
- Excellent plasticising effects, resulting in improved flow, placing and compaction characteristics
- Greatly improved watertightness
- Reduced creeps and shrinkage
- Reduced carbonation rate of the concrete

Sika® ViscoCrete®-3088 does not contain chlorides or any other materials which promote the corrosion of steel reinforcement. It is therefore suitable for reinforced and pre-stressed concrete.

### Tests

#### Approval / Standards

Conforms to the requirements of EN 934 - 2.



## Product Data

### Form

**Appearance / Colour** Yellowish liquid.

**Packaging** Plastic container: 25 litre  
Metal container: 200 litre  
IBC: 1000 litre

### Storage

**Storage Conditions / Shelf Life** 12 months from date of production if stored properly in undamaged and unopened original sealed containers, in dry conditions and at temperatures between +5°C and +30°C. Protect from direct sunlight and frost.

### Technical Data

**Chemical Base** Aqueous solution of modified Polycarboxylate.

**Density** 1.06 kg/l

**pH Value** 5.5 ± 0.5

**Effect on Setting** Retarding according to dosage.

### System Information

#### Application Details

**Consumption / Dosage** 0.2 - 2.0% by weight of cement.

#### Application Conditions / Limitations

**Compatibility** Sika® ViscoCrete®-3088 may be combined with many other Sika Products particularly:

- Sika® Stabilizer-229
- SikaFume®
- Sika® Retarder
- Fro-V5 A / Fro-V30

Trials must be performed before combining products in a concrete mix.

## Application Instructions

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| <b>Dispensing</b>                         | Sika® ViscoCrete®-3088 is added to the gauging water at the plant or added on site into the concrete mixer. Allow enough time for the concrete to mix thoroughly.  |
| <b>Application Method / Tools</b>         | <p>The standard rules of good concreting practice, concerning production and placing, are to be followed. Refer to relevant standards.</p> <p><i>Fresh concrete must be cured correctly.</i></p>   |
| <b>Notes on Application / Limitations</b> | <p>When using Sika® ViscoCrete®-3088 a suitable mix design must be selected and local material sources should be trialled.</p> <p>If frozen and/or if precipitation has occurred, Sika® ViscoCrete®-3088 may only be used after thawing slowly at room temperature and intensive mixing.</p> <p>Sika® ViscoCrete®-3088 should not be added to dry cement.</p> <p>Before pouring, suitability tests on the fresh concrete must be carried out.</p> <p>Due to the extended workability, take special care that formwork is properly installed and secured.</p> |
| <b>Notes</b>                              | 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.   |
| <b>Local Restrictions</b>                 | 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.  |

## Health and Safety Information

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|-----------------------------|--|
| <b>Protective Measures</b>  | <p>To avoid allergic reactions, wear protective gloves. In case of contact with eyes or mucous membrane, rinse immediately with clean water and seek medical attention without delay.</p> <p>Change soiled work clothes and wash hands before eating and after finishing work.</p> <p>Local regulations as well as Health and Safety advice on packaging labels must be observed.</p>              |
| <b>Ecology</b>              |  |
| <b>Transportation Class</b> |  |
| <b>Important Notes</b>      | <p>Unmixed / mixed material must be desposed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.</p> <p>Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the Material Safety Data Sheet.</p> |
| <b>Toxicity</b>             |  |

## 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 or access on the Internet under [www.sika.co.za](http://www.sika.co.za).



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