

# PRODUCT DATA SHEET

## Sikament<sup>®</sup>-100 SC

### ANTI-WASHOUT ADMIXTURE

#### DESCRIPTION

Sikament<sup>®</sup>-100 SC is a unique bipolymer anti-washout admixture for the underwater placement of concrete and grout. Sikament<sup>®</sup>-100 SC meets the requirements of CRD-C661-06.

**How it Works:** Sikament<sup>®</sup>-100 SC increases mix cohesiveness and imparts a variable viscosity characteristic to concrete and grout. Sikament<sup>®</sup>-100 SC produces concrete that becomes fluid and flowable when sheared or mechanically agitated. An example would be during pumping operations. This characteristic enables concrete to flow easily through and into confined spaces. The mix will revert to a dense, high viscous, consistency when at rest. This cohesive cement paste matrix promotes high compressive and flexural strength development.

#### USES

Sikament<sup>®</sup>-100 SC is recommended for underwater placement of concrete and grout in fresh and salt-water environments. Sikament<sup>®</sup>-100 SC improves underwater “stacking” characteristics when concrete is placed by tremie operations. The ability of concrete mixtures to penetrate and consolidate foundation rock layers is dramatically improved, for example, as required in jetty sealing operations. Sikament<sup>®</sup>-100 SC may also be used as a water reducing and anti-washout additive for placement into bentonite slurries or similar materials.

#### CHARACTERISTICS / ADVANTAGES

Sikament<sup>®</sup>-100 SC reduces or eliminates the need to dewater underwater construction sites before concrete construction can take place. Concrete can be placed by pump or tremie directly into areas covered by water. Sikament<sup>®</sup>-100 SC maintains the concrete matrix integrity during high slump placements and reduces washout from the surface during curing.

- Reduce or eliminate dewatering costs associated with underwater construction.
- Concrete is easy to pump and flows readily into available spaces.
- Segregation and dilution are reduced, in-place compressive and bond strengths are significantly increased.
- Laitance on concrete surface caused by cement paste washout during curing is reduced or eliminated.
- The active slump life of the concrete is doubled without extended delays in setting time.

#### PRODUCT INFORMATION

<b>Packaging</b>	<ul style="list-style-type: none"> <li>▪ 200 L drum</li> <li>▪ 1 000 L tank</li> <li>▪ Bulk delivery</li> </ul>
<b>Appearance / Colour</b>	Brown Liquid

<b>Shelf Life</b>	Shelf life when stored in dry warehouse conditions between 10 °C and 27 °C is one year.
<b>Storage Conditions</b>	Sikament®-100 SC should be stored at above 5 °C. If frozen, thaw and agitate thoroughly to return to normal state before use.
<b>Specific Gravity</b>	~1.22

## APPLICATION INFORMATION

**Recommended Dosage** Sikament®-100 SC is formulated for use at a rate of approximately 2.5 l/m<sup>3</sup>. This proportion is based on a nominal 300 kg of cement in the mix with a 0.40 water cement ratio. The amount of Sikament®-100 SC must be proportionately increased when water content is increased. Sikament®-100 SC if used at higher dosages may delay the initial set of concrete. Additional high range water reducing admixtures may be required to obtain desired workability of the concrete. Please consult your local Sika Representative for more information and assistance.

**Dispensing** Sikament®-100 SC should be added to the fresh concrete after all the other mix ingredients have been blended together. Addition of the Sikament®-100 SC directly into the concrete too early in the mixing may promote clumping of the mix materials. For best results, the concrete should be prepared in a concrete mixer that can thoroughly shear the materials and blend all of the components. Turbine mixers and central mix plants often perform better than dry batched transit mixers. Insufficient mixing or use of less than recommended quantities of Sikament®-100 SC may result in a concrete mix that is more likely to bleed or separate.

## 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.

## 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.

## 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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## 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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