

PRODUCT DATA SHEET

Sikament[®]-100 SC

Anti-Washout Admixture

PRODUCT DESCRIPTION

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

How it Works: Sikament[®]-100 SC increases mix cohesiveness and imparts a variable viscosity characteristic to concrete and grout. Sikament[®]-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[®]-100 SC is recommended for underwater placement of concrete and grout in fresh and saltwater environments. Sikament[®]-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[®]-100 SC may also be used as a water reducing and anti-washout additive for placement into bentonite slurries or similar materials.

PRODUCT INFORMATION

Packaging

Sikament[®]-100 SC is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums and bulk delivery.

CHARACTERISTICS / ADVANTAGES

Sikament[®]-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[®]-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.

Appearance / Color	Brown Liquid
Shelf Life	Shelf life when stored in dry warehouse conditions between 50 °F and 80 °F (10–27 °C) is one year.
Storage Conditions	Sikament®-100 SC should be stored at above 40 °F (5 °C). If frozen, thaw and agitate thoroughly to return to normal state before use.
Specific Gravity	Approx. 1.22

APPLICATION INFORMATION

Recommended Dosage	Sikament®-100 SC is formulated for use at a rate of approximately 0.5 gallons per cubic yard (10 fl.oz. / #100 cwt.). This proportion is based on a nominal 660 lbs. 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.
Mixing	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

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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