

PRODUCT DATA SHEET

Sika® Stabilizer-4 R

VISCOSITY MODIFYING ADMIXTURE

PRODUCT DESCRIPTION

Sika® Stabilizer-4 R is a ready to use liquid-based viscosity modifying admixture. Sika® Stabilizer-4 R improves stability and segregation resistance of concrete mixes without significant reduction of slump or flow, resulting in improved surface quality and aesthetics. Sika® Stabilizer-4 R is suitable for various types of concrete. Sika® Stabilizer-4 R has been found to improve plastic properties of Self Consolidating Concrete (SCC) as well as high slump conventional concrete mixes, and mixes containing manufactured sand and/or poorly graded aggregates.

Sika® Stabilizer-4 R helps stabilize the air void system in freshly mixed and placed concrete and increases the overall concrete stability. Sika® Stabilizer-4 R also reduces the consolidation effort, which could be utilized in a dry-cast application to reduce the production cycle time. Sika® Stabilizer-4 R is compatible with Sika® ViscoCrete® high range water reducing admixtures and is recommended for precast and ready mix concrete applications. Sika® Stabilizer-4 R meets the requirements for ASTM C-494, Type S admixture.

USES

Sika® Stabilizer-4 R is suitable for usage in cases when:

- Improved flow & aesthetics of low slump extruded concrete mixes
- Higher resistance to segregation is required
- Improved stability during transportation is required
- Lean concrete mix designs are used for SCC production
- Manufactured sand and/or “gap-graded” coarse aggregate is used
- Migration of air within the concrete mixture is observed
- Fluctuation of water content in aggregates causes inconsistent production
- Faster concrete consolidation is required

CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer-4 R increases overall mix cohesiveness without promoting concrete stiffening, which ultimately results in easier placement, reduced consolidation effort and improved aesthetics.

- Enhances stability of concrete matrix integrity during high slump placements
- Improves distribution of aggregate in the concrete mixture
- Increases the cohesiveness of lean and harsh mix designs
- Reduces segregation and bleeding
- Improves surface finishability
- Improves the air void distribution within the concrete matrix
- Reduces consolidation effort due to reduced stiffening

PRODUCT INFORMATION

Packaging	Sika® Stabilizer-4 R is available in 55 gallon drums (208 liters), 275 gallon (1040 liters) totes and bulk tanker.
Appearance / Color	Green Liquid
Shelf Life	Shelf life when stored in dry warehouse conditions between 40°F and 80°F (5°C - 27°C) is one year. Protect from frost and direct sunlight.
Storage Conditions	Sika® Stabilizer-4R should be stored above 40°F (5°C). If frozen, thaw and agitate thoroughly to return to normal state.
Specific gravity	Approx. 1.01

APPLICATION INFORMATION

Recommended Dosage	Dosage rates will vary according to materials used, ambient conditions and the requirements of a specific project. Sika recommends dosage up to 7 fl.oz/100 lbs.(455 ml/100 kg) of cementitious materials. Dosage rates outside the recommended range may be used where specialized materials such as microsilica are specified, extreme ambient conditions are encountered or unusual project conditions require special consideration. In this case please contact your local regional office or Technical service department at 1-800-933-7452.
Mixing	Sika® Stabilizer-4 R should be added to the fresh concrete after all other mix ingredients have been blended together. Addition of the Sika® Stabilizer-4 R directly into the concrete too early 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 Sika® Stabilizer-4 R may result in a concrete mix that is more likely to bleed or separate. Sika® Stabilizer-4 R may also be dispensed into freshly mixed concrete in a ready mix truck at the concrete plant or at the job site. When added on site, mixer should rotate its drum at maximum speed for a minimum of 1 minute/cu.yd or at least 5 minutes.

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.

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 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.

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.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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