

# Sika® Stabilizer-4R

## Viscosity Modifying Admixture

Concrete

### Description

Sika® Stabilizer-4R is a ready to use liquid-based viscosity modifying admixture. Sika® Stabilizer-4R improves stability and segregation resistance of concrete mixes without significant reduction of slump or flow, resulting in improved surface quality and aesthetics. Sika® Stabilizer-4R is suitable for various types of concrete. Sika® Stabilizer-4R 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-4R helps stabilize the air void system in freshly mixed and placed concrete and increases the overall concrete stability. Sika® Stabilizer-4R also reduces the consolidation effort, which could be utilized in a dry-cast application to reduce the production cycle time. Sika® Stabilizer-4R is compatible with Sika® ViscoCrete® high range water reducing admixtures and is recommended for precast and ready mix concrete applications. Sika® Stabilizer-4R meets the requirements for ASTM C-494, Type S admixture.

### Applications

Sika® Stabilizer-4R 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

### Benefits

Sika® Stabilizer-4R 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

### How to Use

#### 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.

The Sika logo consists of the word "Sika" in a bold, yellow, sans-serif font, set against a red triangular background. A registered trademark symbol (®) is located to the right of the word.

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

The amount of Sika® Stabilizer-4R must be proportionately increased as water content increases and may be reduced with lower water content. To determine proper dosage, site trials with local materials are always recommended. In case of overdosing, retardation and concrete stiffness can occur. In such a case, increase dosage of HRWR to maintain desired consistency.

<b>Mixing</b>	Sika® Stabilizer-4R should be added to the fresh concrete after all other mix ingredients have been blended together. Addition of the Sika® Stabilizer-4R 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-4R may result in a concrete mix that is more likely to bleed or separate. Sika® Stabilizer-4R 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.
<b>Packaging</b>	Sika® Stabilizer-4R is available in 55 gallon drums (208 liters), 275 gallon (1040 liters) totes and bulk tanker.
<b>Storage and Shelf Life</b>	Sika® Stabilizer-4R should be stored above 40°F (5°C). If frozen, thaw and agitate thoroughly to return to normal state.  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.
<b>Typical Data</b>	
<b>Appearance</b>	Green Liquid
<b>Specific Gravity</b>	Approx. 1.01

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

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at <http://usa.sika.com/> or by calling 800-933-7452.

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 shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

**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.**

**Sika Corporation**  
201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: (201) 933-8800  
Fax: (201) 933-6225  
[usa.sika.com](http://usa.sika.com)

**Sika Canada Inc.**  
601, Delmar Avenue  
Pointe-Claire, QC H9R 4A9  
Phone: (514) 697-2610  
Fax: (514) 697-3087  
[can.sika.com](http://can.sika.com)

**Regional Information and Sales Centers.** For the location of your nearest Sika representative, contact your regional center.

**U.S. :**  
**Northeast:** Fairless Hills, PA, Phone: (215) 295-6600  
**South East:** Conyers, GA, Phone: (770) 760-1300  
**Western Region:** Santa Fe Springs, CA, Phone: (972) 289-6480

**North Central:** Ottawa, IL 61350, Phone: (815) 431-1080  
**South Central:** Mesquite, TX, Phone: (972) 289-6480

**Canada:** **Ontario:** Mississauga, ON, Phone: (905) 795-3177

**Alberta:** Edmonton, AB, Phone: (780) 486-6111

Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Marion: FM 69715, Kansas City: FM 69107, Santa Fe Springs: FM 69408



**PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://USA.SIKA.COM/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.**