



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 and 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 also compatible with Sika® ViscoCrete® high range water reducing admixtures and is recommended for precast and ready mix concrete applications.

WHERE TO USE

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

- Higher resistance to segregation is required
- Improved stability during transportation is required

PRODUCT INFORMATION

CSC MasterFormat®

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Packaging

205 L (54 US gal.) drum
1040 L (275 US gal.) IBC

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- 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 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.

APPROVALS / CERTIFICATES

Sika® Stabilizer-4 R meets the requirements for ASTM C-494, Type S admixture.

	Bulk delivery
Shelf Life	6 months when stored in dry warehouse conditions at temperatures between 5 °C and 27 °C (40 °F and 80 °F). Protect from frost and direct sunlight.
Storage Conditions	Store at temperatures above 5 °C (40 °F). If frozen, thaw and agitate thoroughly to return to normal state.
Appearance / Colour	Liquid / Green
Specific Gravity	Approx. 1.02

APPLICATION INFORMATION

Recommended Dosage	<p>Dosage rates will vary according to materials used, ambient conditions and the requirements of a specific project.</p> <p>The recommended dosage range is 65-455 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, contact your Sika Canada Technical Sales Representative for further information.</p> <p>The amount of Sika® Stabilizer-4 R 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.</p> <p>In case of overdosing, retardation and concrete stiffness can occur. In such a case, increase dosage of HRWR to maintain desired consistency.</p>
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Mixing	<p>Mixing</p> <p>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. It 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 one (1) minute/cu. yd or at least five (5) minutes.</p>
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BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 may be downloaded from our website at: www.sika.ca

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