

PRODUCT DATA SHEET

Sika® Stabilizer-4 R id

VISCOSITY MODIFYING ADMIXTURE

DESCRIPTION

Sika® Stabilizer-4 R id is a ready to use liquid-based viscosity modifying admixture.

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

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

USES

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

- 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 id 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	20 L Jerrycan, 1 000 L IBC
Appearance / Colour	Liquid / Blue
Shelf life	Shelf life when stored in dry warehouse conditions between +5 °C to +27 °C is 9 months. Protect from frost and direct sunlight.

Storage conditions	Sika® Stabilizer-4 R id should be stored above +5 °C. If frozen, thaw and agitate thoroughly to return to normal state.
Density	1.01 ± 0.01 kg/L (at +20 °C)

TECHNICAL INFORMATION

Concreting Guidance	<p>Sika® Stabilizer-4 R id should be added to the fresh concrete after all other mix ingredients have been blended together. Addition of the Sika® Stabilizer-4 R id directly into the concrete too early may promote clumping of the mix materials.</p> <p>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.</p> <p>Insufficient mixing or use of less than recommended quantities of Sika® Stabilizer-4 R id may result in a concrete mix that is more likely to bleed or separate. Sika® Stabilizer-4 R id 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.</p>
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APPLICATION INFORMATION

Recommended Dosage	<p>Dosage rates will vary according to materials used, ambient conditions and the requirements of a specific project. Sika recommends dosage at 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 please contact your local Technical Service Department.</p> <p>The amount of Sika® Stabilizer-4 R id 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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BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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 the exact product data and uses.

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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