Sika® Stabilizer-4R
Viscosity Modifying Admixture

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 Consollidating 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 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.

### Mixing
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.

### Packaging
Sika® Stabilizer-4R is available in 55 gallon drums (208 liters), 275 gallon (1040 liters) totes and bulk tanker.

### Storage and Shelf Life
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.

### Typical Data

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<thead>
<tr>
<th>Appearance</th>
<th>Green Liquid</th>
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<tr>
<td>Specific Gravity</td>
<td>Approx. 1.01</td>
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