

Sika® Stabilizer 4R

Viscosity Modifying Admixture

Construction

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. 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.

Applications

Sika Stabilizer 4R 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

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 at 1.0-7fl.oz/100lbs, (65-455ml/100kg) 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 drum (208 liter) and 275 gallon (1040 liter) totes.
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 6 months. Protect from frost and direct sunlight.
Typical Data	
Appearance	Green Liquid
Specific Gravity	Approx. 1.02
CAUTION:	IRRITANT. Contains propylene glycol (CAS 57-55-6). May cause eye/skin/ respiratory irritation. May be harmful if swallowed.
Handling and Storage	Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.
First Aid	Eyes: Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin: Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation: Remove to fresh air. Ingestion: Do not induce vomiting. Dilute with water. Contact physician. In all cases contact a physician immediately if symptoms persist.
Clean Up	Use personal protective equipment (chemical resistant gloves/ goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations.

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

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

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