

PRODUCT DATA SHEET

Sika® Stabilizer-4

VISCOSITY MODIFYING CONCRETE ADMIXTURE

PRODUCT DESCRIPTION

Sika® Stabilizer-4 is a liquid admixture for concrete which is used to modify the viscosity and eliminate segregation of concrete.

USES

Sika® Stabilizer-4 has been specially developed for Self Compacting Concrete (SCC) and can also be used for other concretes, where improved stability during transportation and placing is required. Sika® Stabilizer-4 improves the fresh concrete properties of mixes with varying fines content, low cement content or concrete mixes with unfavourable grading curves. Sika® Stabilizer-4 can be used for:

- Self Compacting Concrete (SCC)
- Shotcrete applications
- Pumped concrete
- Low fines content concrete

CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer-4 provides the following characteristics and advantages in the fresh concrete properties:

- Strongly increased internal cohesion of the mix
- Lower sensitivity against variations in the constituent materials
- Homogeneous mix
- Less bleeding
- Lower tendency to segregation

Sika® Stabilizer-4 assists the concrete placing in the following ways:

- Reduction of compaction defects
- Smoother concrete surfaces
- Improved pumpability
- Equipment is preserved and its service life is prolonged

Sika® Stabilizer-4 does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Table 13 DoP 76619875, certified by Factory Production Control Body 1029 and provided with the CE mark DoP 78457290, certified by Factory Production Control Body 0120 and provided with the UKCA mark

PRODUCT INFORMATION

Chemical Base	Carbohydrate Complex
Packaging	20 litre drums, 1000 litre IBC
Appearance / Colour	Blue liquid
Shelf Life	12 months from date of production if stored properly in undamaged containers.

Storage Conditions	Store in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.
Density	~1.03 kg/l
pH-Value	8.0 +/- 1.0
Total Chloride Ion Content	<0.10% w/w (chloride free)
Equivalent Sodium Oxide	<0.25% w/w (alkali content)

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as early as possible.
Specific Advice	Effect on Setting, Extension to normal setting Effect of Overdosing, Retardation and increased cohesion
Compatibility	Sika® Admixtures: Compatible with all Viscocrete High Range Water Reducers/Superplasticisers Compatibility information available on request Cements: All cement combinations

APPLICATION INFORMATION

Recommended Dosage	0.1 - 1.0% by weight of cement
Compatibility	Sika® Stabilizer-4 may be combined with many other Sika® products. Combination with other admixtures may affect the amount of air entrained into the concrete. Note: Always conduct trials before combining products in specific mixes and contact Sika® technical service for more information and advice.
Dispensing	Sika® Stabilizer-4 is mixed with the gauging water or added at the same time into the concrete mixer. It may also be added to the concrete in the transit mixer at the point of discharge. In this case, an additional mixing time of at least 1 minute per m ³ concrete must be observed. Before discharging it, check the concrete visually for uniform consistency. The quantity of Sika® Stabilizer-4 in the mix design should be taken into consideration when determining the quantity of water for a specific w/c-ratio.
Restrictions	When using Sika® Stabilizer-4 a suitable mix design has to be produced and the local material sources shall always be trialled. Overdosing may result in retardation. For optimum dosage trials are recommended. Sika® Stabilizer-4 shall not be added to dry cement.

VALUE BASE

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

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

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

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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Product Data Sheet

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