

PRODUCT DATA SHEET

Sika® Stabilizer-4 R

VISCOSITY MODIFYING ADMIXTURE



DESCRIPTION

Sika® Stabilizer-4 R is a concrete admixture that increases the stability and cohesiveness of concrete and mortar mixes. Sika® Stabilizer-4 R also improves the fresh concrete properties of mixes with varying fines content, low cement content or concrete mixes with unfavourable grading curves, improving the characteristics of problematic concrete mixes, increasing their stability and cohesiveness and protecting pumps and mechanical equipment from wear and tear.

Sika® Stabilizer-4 R has been also developed for Self Compacting Concrete (SCC).

USES

Sika® Stabilizer-4 R is used especially in cases of mixes with unstable concrete constituents, low cement content, bad granulometry, low fine content, reduced ability for water retention and segregation tendency.

Sika® Stabilizer-4 R is used in:

- Underwater concrete
- Self-Compacting concrete
- Injections
- Pumped concrete
- Where stability during transportation and placing is required
- Low fines content concrete
- Shotcrete

CHARACTERISTICS / ADVANTAGES

- Increases mix cohesiveness
- Lower sensitivity against variations in the constituent materials
- Good mix consistency
- Reduces bleeding
- Lower tendency to segregation
- Reduction of compaction defects
- Smoother concrete surfaces
- Improved pumpability
- Suitable for use in reinforced and pre-stressed concrete
- Does not contain chlorides or any other substances which promote steel corrosion

APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 934-2 - Admixtures for concrete, mortar and grout

PRODUCT INFORMATION

Composition	Modified starch complex
Packaging	<ul style="list-style-type: none"> ▪ 25 kg containers ▪ 220 kg barrels ▪ 1000 kg tanks
Appearance / Colour	Blue liquid
Shelf life	12 months from date of production

Storage conditions

The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost. Always refer to packaging. In cases of prolonged exposure in UV radiation, the product may turn transparent. This does not affect however the technical performance of the product. If frozen the product can be re-used if heated in room temperature and intensively mixed.

Density 1,03 ± 0,1 kg/l

pH-Value 8 ± 1

Total Chloride Ion Content < 0,10 %

TECHNICAL INFORMATION

Concreting Guidance The standard rules of good concreting practice, concerning production and placing must be followed. Laboratory trials must 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.

Concrete Mix Design The quantity of Sika® Stabilizer-4 R in the mix design must be taken into consideration when determining the quantity of water for a specific w/c ratio. When using Sika® Stabilizer-4 R, a suitable mix design must be calculated. The local material sources used within the mix design must always be trialled and approved for suitability before commencement of the project.

APPLICATION INFORMATION

Recommended Dosage 0,2–1,0 % by weight of cement

Compatibility Sika® Stabilizer-4 R may be combined with the following Sika products:

- Sika® ViscoCrete® series
- Sika® ViscoFlow® series
- Sika® Plastiment® series
- Sika-Aer® Fine
- SikaRapid®-2
- Sika® Ferrogard-901 S
- Sika® Sigunit® accelerators

Important: Always conduct trials before combining products in specific mixes and contact our Technical Service for information and advice about any specific combinations.

Dispensing Sika® Stabilizer-4 R must be measured using suitable equipment then mixed with the batching gauging water or both added together at the same time into the batching plant concrete mixer. It may also be added to the concrete in the drum of a ready mix truck at the jobsite. In this case, an additional mixing time of at least 1 minute per m³ of concrete must be completed before placement. Sika® Stabilizer-4 R modifies slightly the viscosity of the mix and the mix remains stable, even with slightly higher W/C ratio and does not segregate.

Restrictions

- Before application, stir the product!
- The product must be protected from UV radiation also during its usage.
- When using Sika® Stabilizer-4 R a suitable mix design has to be produced and the local material sources shall always be trialled.
- Sika® Stabilizer-4 R shall not be added to dry cement and aggregate mix.
- Preliminary tests before its use in the production are recommended, especially in cases of its incorporation in new mixes or its use in new concrete elements.
- Fresh concrete must cure properly.
- In case of special applications, please contact our Technical Department.

BASIS OF PRODUCT DATA

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.

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.

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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