

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. It has been specially developed for Self Compacting Concrete (SCC). 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.

USES

- Self Compacting Concrete (SCC)
- Shotcrete applications
- Pumped concrete
- Where stability during transportation and placing is required
- Low fines content concrete

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

PRODUCT INFORMATION

Chemical Base	Modified starch complex
Packaging	Drum IBC Bulk supply
Appearance / Colour	Colourless, cloudy liquid
Shelf Life	6 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 +30 °C. Always refer to packaging.
Density	~1.01 kg/l
pH-Value	~7.5

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 – 2.0 % by weight of cement

Compatibility

Sika® Stabilizer-4 R may be combined with many other Sika® products. Combination with other admixtures may affect the amount of air entrained into the concrete.
Trials must always be carried out before combining products in specific mixes. Contact Sika Technical Services for additional information and 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.

Restrictions

Sika® Stabilizer-4 R must not be added to dry cement.
Overdosing may result in retardation. For optimum dosage, trials are recommended.

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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