

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.

USES

Sika® Stabilizer-4 R 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 R improves the fresh concrete properties of mixes with varying fines content, low cement content or concrete mixes with unfavourable grading curves.

Sika® Stabilizer-4 R can be used for:

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

CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer-4 R 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

Assists 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 R 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

ASTM C-494, Types Admixture

PRODUCT INFORMATION

Chemical Base	Modified starch complex
Packaging	20 litre and 200 litre drums and bulk delivery
Appearance / Colour	Violet liquid
Shelf Life	Twelve (12) months shelf life from date of production if stored as stated.
Storage Conditions	Store in original sealed packaging in a dry area protected from direct sunlight, frost and contamination at temperatures between +5°C and +35°C.
Density	~1.03 kg/l
pH-Value	~7.5

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.

APPLICATION INFORMATION

Recommended Dosage

0.1 - 1.0% 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. **Note:** Always conduct trials before combining products in specific mixes and contact Sika® technical service for more information and advice.

Dispensing

Sika® Stabilizer-4 R 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 m³ concrete must be observed. Before discharging it, check the concrete visually for uniform consistency. The quantity of Sika® Stabilizer-4 R 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 R 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 R shall not be added to dry cement.

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 recommenda-

tions 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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