

PRODUCT DATA SHEET

Sika® Stabilizer-4 R TH

STABILIZER FOR CONCRETE AND MORTAR

DESCRIPTION

Sika® Stabilizer 4R TH is a concrete admixture that increases the stability and cohesiveness of concrete and mortar mixes.

USES

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

Sika® Stabilizer 4R TH is used for:

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

CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer 4R TH 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 4R TH 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 4R TH 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.

PRODUCT INFORMATION

Composition	Starch complex
Packaging	25 l/pail 200 l/drum
Appearance / Colour	Blue Liquid
Shelf life	6 months from the date of production If stored properly in undamaged original, sealed packaging.
Storage conditions	Store in dry conditions at temperature between 5°C and 40°C, protected from direct sunlight and frost. Stir thoroughly before use.
Density	1.005 - 1.020 kg/l (at temperature 25°C)

pH-Value	7.5 - 9.5 Approx.
Total Chloride Ion Content	≤ 0.10 %
Equivalent Sodium Oxide	≤ 0.2 %

APPLICATION INFORMATION

Recommended Dosage	0.1 - 1.0% by weight of cement
Compatibility	Sika® Stabilizer 4R TH may be combined with many other Sika products. 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 4R TH is added to the gauging water at the plant or added on-site into the concrete mixer. When added on site the truck mixer shall rotate its drums at maximum revolutions for at least 1 minute per m ³ concrete and a minimum of 5 minutes to achieve a uniform mix.
Restrictions	The standard rules of good concreting practice, concerning production as well as 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.

IMPORTANT CONSIDERATIONS

When using Sika® Stabilizer 4R TH 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 4R TH 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 Material Safety Data Sheet 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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