

PRODUCT DATA SHEET

Sika® Stabilizer-4 R

VISCOSITY MODIFYING CONCRETE ADMIXTURE

PRODUCT DESCRIPTION

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

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

Sika® Stabilizer-4 R 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 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.

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)

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 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 m ³ 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.

VALUE BASE

for more information.

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation

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.

SIKA IRELAND LIMITED

Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @Sikalreland



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