

BUILDING PRODUCT INFORMATION 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

FEATURES

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 / CERTIFICATES

ASTM C-494, Types Admixture

PRODUCT INFORMATION

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| Product identifier | Sika® Stabilizer-4 R |
| Place of manufacture | Aotearoa New Zealand |
| Composition | Modified starch complex |
| Packaging | 20 litre and 200 litre drums and bulk delivery |
| 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. |
| Appearance and colour | Violet liquid |
| Density | ~1.03 kg/l |
| pH-Value | ~7.5 |

APPLICATION INFORMATION

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| 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

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.

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.

TECHNICAL INFORMATION

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| 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. |
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MANUFACTURER AND IMPORTER INFORMATION

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| Manufacturer information | Address | Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand |
| | Phone number | 0800 745 269 |
| | Website | https://nzl.sika.com/ |
| | Email address | info@nz.sika.com |
| | NZBN | 9429000018791 |

BUILDING CODE INFORMATION

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| Building Code clauses | Note: This product on its own is not within the scope of the NZ Building Code. It is an additive / admixture for use in the manufacture of concrete, to enhance its performance properties in either its plastic or hardened state. When added to concrete that must comply with the NZ Building Code, and it used in accordance with Sika's technical literature, it will contribute to meeting the requirements of the following clauses: B1 Structure: Performance Clauses B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q) B1.3.4 B2 Durability: Performance clause B2.3.1-(a) not less than 50 years F2 Hazardous Building Materials: Performance clause F2.3.1 |
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| Building Code compliance statements | Performance B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q), B1.3.4: This product meets the requirements of AS1478.1 Chemical Admixtures for Concrete, Mortar and Grout. When added to concrete during the production phase it contributes to the hardened concrete meeting loading requirements arising from self-weight, imposed gravity loads, earthquake, wind impact, and the effects of creep and shrinkage over time. Performance B2.3.1 (a) 50 years: This product meets the requirements of AS1478.1 Chemical Admixtures for Concrete, Mortar and Grout. When added to concrete, mortar or grout during the manufacturing process it helps the hardened concrete to achieve its durability requirements and to remain serviceable for 50 years, or more. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2019. |
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Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required

DESIGN REQUIREMENTS

Design requirements for concrete that contains Sika admixtures, or other concrete additives are the responsibility of the ready mixed concrete producer and/or the concrete design engineer.

MAINTENANCE REQUIREMENTS

Once added the Sika admixture / additive becomes an integral part of the hardened concrete, mortar or grout. Refer to the supplier of that product for their maintenance instructions.

BASIS OF PRODUCT DATA

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

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.

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.

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. 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.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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NZ BUILDING PRODUCT INFORMATION SHEET

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