

PRODUCT DATA SHEET

Sika® Stabilizer-100 AE

VISCOSITY MODIFYING ADMIXTURE

DESCRIPTION

Sika® Stabilizer-100 AE is a ready to use liquid based viscosity modifying admixture. Sika® Stabilizer-100 AE improves stability and segregation resistance of concrete mixes resulting in improved surface quality and aesthetics. Sika® Stabilizer-100 AE is suitable for various types of concrete. Sika® Stabilizer-100 AE has been found to improve plastic properties of Self Compacting Concrete (SCC) as well as high slump conventional concrete mixes and mixes containing manufactured sand and/or poorly graded aggregates. Sika® Stabilizer-100 AE helps stabilise the air void system in freshly mixed and placed concrete and increases the overall concrete stability. Sika® Stabilizer-100 AE is compatible with Sika ViscoCrete® high range water reducing admixtures and is recommended for precast and ready mix concrete applications.

USES

Sika® Stabilizer-100 AE 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-100 AE improves the fresh concrete properties of mixes with varying fines content, low cement content or concrete mixes with unfavourable grading curves.

Sika® Stabilizer-100 AE is used for:

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

CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer-100 AE 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 and gap graded aggregates
 - Homogeneous mix
 - Less bleeding
 - Improves stability during transportation
 - Faster concrete consolidation
 - Reduced tendency to segregation
- Sika® Stabilizer-100 AE 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-100 AE 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

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| Packaging | Bulk deliveries ,1000 litre IBC, 200 litre drum. |
| Appearance / Colour | Colourless to yellowish viscous liquid |

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| Shelf life | 12 months from date of production if stored properly in undamaged containers. |
| Storage conditions | Store properly in undamaged containers, in dry conditions at temperatures between +5 °C and +45 °C, protected from direct sunlight and frost. Stir thoroughly before use. |
| Density | 1.002 g/cm ³ |

TECHNICAL INFORMATION

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| Concreting guidance | The standard rules of good concreting practice for production and placing must be observed when using Sika® Stabilizer-100 AE in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian. |
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APPLICATION INFORMATION

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| Recommended dosage | 0.1 - 1.0 % by weight of cement Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required. |
| Compatibility | Sika® Stabilizer-100 AE may be combined with many other Sika products. 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-100 AE is added to the gauging water at the plant or added on-site into the concrete mixer. Do not add Sika® Stabilizer-100 AE directly to the dry mix. 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. |

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

When using Sika® Stabilizer-100 AE a mix design must be selected for the local material sources used and trial mixes performed to verify suitability. If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing.

Sika® Stabilizer-100 AE should not be added to dry cement. Before pouring, suitability tests on the fresh concrete must be carried out. In case the setting time of concrete is extended, if cured properly, other properties may not be affected and higher ultimate strength is visualized. When accidental overdosage oc-

curs retardation of initial set will be observed.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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 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.

SIKA NORTHERN GULF

Bahrain / Kuwait
Tel: +973 177 38188
sika.gulf@bh.sika.com
gcc.sika.com

SIKA SOUTHERN GULF

UAE / Oman / SIC
Tel: +971 4 439 8200
info@ae.sika.com
gcc.sika.com

Sika Saudi Arabia Limited

P.O. Box 112356, Jeddah
Kingdom of Saudi Arabia
Tel. +966 12 692 70 79
email: info@sa.sika.com
web: gcc.sika.com

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ISO 14001: Sika Saudi Arabia Co. Ltd

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