

## PRODUCT DATA SHEET

# Sika® Plastiment®-96 KH

### WATER REDUCING AND SET RETARDING CONCRETE ADMIXTURE

#### DESCRIPTION

A concrete plasticizer and retarder based on modified lignosulfonates used to produce good quality concrete.

#### USES

Sika® Plastiment®-96 KH is used in structural and mass concrete where long setting times and improved workability are required, such as projects with:

- Large pours, to prevent formation of cold joints
- Long travel times from the concrete plant to the site
- Difficult placing conditions and details
- High ambient temperature

#### CHARACTERISTICS / ADVANTAGES

- Only set retarding, does not delay the hardening process
- Allow substantial cement reduction compared to plain concrete
- Increase in ultimate strength
- Good control of slump loss even at elevated ambient temperature
- Reduced shrinkage and creep
- Chloride free, does not attack reinforcement steel

#### APPROVALS / CERTIFICATES

Complies with ASTM C 494 Type D.

#### PRODUCT INFORMATION

Composition	Blend of Lignosulfonates
Packaging	200 / 1000 L
Shelf life	12 months if stored properly in original unopened packaging
Storage conditions	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +30 °C
Specific Gravity	1.16 - 1.18 (at 25° C)

#### TECHNICAL INFORMATION

Concreting Guidance	<p><b>Concrete placing:</b> With the use of Sika® Plastiment®-96 KH, concrete of highest quality is being produced, however state of the art concrete technology, such as mixing, placing vibrating and curing must be respected and applied.</p> <p><b>Curing:</b> Effective measures for concrete curing must be followed.</p>
Specific Advice	<p>Sika® Plastiment®-96 KH is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix. For optimum utilization of water reducer we recommend a minimum wet mixing time of 60 seconds. When adding the balance of the batching water to adjust concrete consistency this should be done after a minimum of 2/3</p>

of the wet mixing time to avoid surplus water in the concrete.

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	0.20 – 1.00 L (0.24 – 1.18kg ) per 100kg of cement (depends on Cement type & brand)  <b>Typical dosage</b> 0.5 - 1.00 L (0.60 - 1.17kg ) per 100kg of cement
<b>Compatibility</b>	Possible to combine with all Sikament®, Sika® Aer, Sika® Pump, Sikacrete® PP-1, but must be added separately to the mix and not pre-mixed prior addition.
<b>Dispensing</b>	Sika® Plastiment®-96 KH is either added to the gauging water prior to its addition to the dry concrete mix or added separately to wetted concrete mix, further mixing should take place for at least 1 minute per m3.

## IMPORTANT CONSIDERATIONS

When overdosed, setting time will be extended, depending on cement content and temperature. Final strength will be not impaired.

Note: Due to extended setting time, proper curing must be ensured. Do not vibrate green concrete or tamper embedded rebars whilst setting.

- Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. If assistance is required, please contact the Sika Technical Service Department.
- Accurate dispensing equipment can be supplied by Sika.
- Use an appropriate mixer and do not mix by hand.
- Curing treatment -use of Sika curing compounds to cure concrete is advisable.

## 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.

## 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

## 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.

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