

PRODUCT DATA SHEET

Sikament-104 KH

MID RANGE SUPERPLASTICISER FOR CONCRETE

DESCRIPTION

Sikament-104 KH is a high performance superplasticiser based on Sulphonated Naphthalene technology.

USES

Sikament-104 KH is mainly suitable for the manufacture of concrete for RMC plants and site batch concrete, and performs in low to medium grade concretes, Grade 20-50Mpa.

Sikament-104 KH is used for the following types of concrete:

- Bored piles and Foundations
- Bridges and cantilever
- Slender components with dense reinforcement
- Columns, Walls and Suspended Slabs

CHARACTERISTICS / ADVANTAGES

Sikament-104 KH effects the following concrete properties:

- High flowability (reduced placing and compacting work).
 - Workability can be maintained up to 2 hours (still depends on admixture dosage, cement type, temperature)
 - Faster evolution of early strength development
- Sikament-104 KH contains no chlorides or other corrosion-inducing substances and can therefore be used without any restrictions for reinforced concrete structures.

PRODUCT INFORMATION

Composition	Modified Naphthalene in water
Packaging	200/1000 l
Appearance / Colour	Dark Brown Liquid
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	1.190 - 1.220
pH-Value	7.5 - 10.0
Recommended Dosage	0.3 – 1.0ltr per 100 kg of cement Typical: 0.5 to 0.8 ltr/100kg
Compatibility	Sikament-104 KH may be combined with all Sikament, Sika® Aer, Sika® Pump, Sikacrete® PP1 products, but must be added separately to the mix and not pre-mixed prior its addition.
Dispensing	Addition/Mixing Sikament-104 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 the high range 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 of the wet mixing time to avoid surplus water in the concrete.

Concrete Placing

With the use of Sikament-104 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.

Curing

Effective measures for concrete curing must be followed

Restrictions

Overdosing will result in increased workability and setting time of the concrete; however provided that curing is effective, ultimate concrete strength and properties will not be affected.

Accurate dispensing equipment can be supplied by Sika (Cambodia).

Use an appropriate concrete mixer and do not mix by hand.

Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

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 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 (Cambodia) Ltd.

Legacy Business Center, Building #29
street 245
Sangkat Tuol Tom Poug 2, Khan
Chamkarmorn
12308, Phnom Penh, Cambodia
Tel: +855 23 901 450

PRODUCT DATA SHEET

Sikament-104 KH
March 2020, Version 01.01
021302011000001119

Sikament-104KH-en-KH-(03-2020)-1-1.pdf