

PRODUCT DATA SHEET

SikaPlast®-209 H KH

PCE BASED SUPERPLASTICIZING AND SET RETARDING CONCRETE ADMIXTURE

DESCRIPTION

SikaPlast®-209 H KH is a 3rd generation polymer based high performance super plasticizer for producing soft consistency concrete.

USES

SikaPlast®-209 H KH is mainly suitable for the manufacture of concrete for RMC plants and site batch concrete. SikaPlast®-209 H KH is used for the following types of concrete:

- High strength Bored piles
- Bridges and cantilever
- Slender components with dense reinforcement

CHARACTERISTICS / ADVANTAGES

SikaPlast®-209 H KH combines different modes of actions. By adsorption on the surface of the fines and keeping them apart while the hydration is in progress, SikaPlast®-209 H KH effects the following concrete properties:

- Long Slump keeping and high water reduction
- High flowability (considerably reduced placing and compacting work).
- Faster evolution of early strength development
- Workability can be maintained up to 4-6 hours (still depends on admixture dosage, cement type, temperature)
- Improved creep and shrinkage resistance characteristics
- SikaPlast®-209 H KH contains neither chlorides nor other corrosion-inducing substances and can therefore be used without any restrictions for reinforced concrete structures.

APPROVALS / CERTIFICATES

SikaPlast®-209 H KH meets the requirements of ASTM C494 Type G.

PRODUCT INFORMATION

Composition	Modified Poly carboxylate in water
Packaging	200L/drum - 1000L/IBC
Appearance / Colour	Liquid / Brownish colour
Shelf life	Min. 1 year if stored properly in original unopened packaging
Storage conditions	Dry, cool, shaded place (between 5 and 30 celcius degrees)
Density	1.13-1.16 kg/litre. (25° C)
pH-Value	5.0 - 8.0

APPLICATION INFORMATION

Recommended Dosage	0.50 – 2.00 Ltr. Per 100kg of cement. Typical dosage: 0.70 – 1.10 Ltr. Per 100kg of cement.
Compatibility	SikaPlast®-209 H KH may be combined with all Sikament, Sika® Aer, Sika® Pump, Sikacrete® PP1 products, but must be added separately to the mix and not premixed prior its addition. SikaPlast®-209 H KH is compatible with all Portland Cement types.
Dispensing	SikaPlast®-209 H 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 ultrahigh 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.

DISPENSING

With the use of SikaPlast®-209 H 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.

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

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