

PRODUCT DATA SHEET

SikaPlast®-171 KH

PCE BASED SUPERPLASTICIZING AND SET RETARDING CONCRETE ADMIXTURE

DESCRIPTION

SikaPlast®-171 KH is a 3rd generation polymer based high performance superplasticizer for producing soft consistency concrete.

SikaPlast®-171 KH meets the requirements of ASTM C 494 Type D & G.

SikaPlast®-171 KH conforms to type G when used at 0.8 – 1.0% dosage, depending on cement type used.

USES

SikaPlast®-171 KH is mainly suitable for the manufacturing of concrete for RMC plants and site batched concrete.

SikaPlast®-171 KH is used for the following type of concrete:

- Bored Piles
- Barrette foundations and diaphragm walls
- Ground and suspended slabs
- Column and walls

FEATURES

SikaPlast®-171 KH combines different modes of actions. By absorption on the surface of the fines and keeping them apart while the hydration is in progress, SikaPlast®-171 KH improve the following properties of concrete:

- 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 2-4 hours or higher (depends on the admixture dosage, cement type and temperature)
- Improved creep and shrinkage resistance characteristics
- When used at higher dosages, SikaPlast®-171 KH can give extended working time.
- SikaPlast®-171 KH contains no chlorides or other corrosioninducing substances and can therefore be used without any restrictions for reinforced concrete structures.

PRODUCT INFORMATION

Composition	Modified poly carboxylate in water
Packaging	200kg (Drum) / 1000kg (IBC)
Colour	Brown
Shelf life	12 months if stored properly in original unopened packaging.
Storage conditions	Stored in dry condition, protected from the direct sunlight and at temperatures between +5°C and +30°C.
Density	1.04 to 1.10 at 25°C

Concreting guidance

Concrete placing: With the use of SikaPlast®-171 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.

Specific advice

SikaPlast®-171 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 ultra-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.

Recommended dosage

0.5 - 3L per 100kg of cement/binder
Typical dosage - 0.8 to 1.2L per 100kg of cement/binder

Compatibility

SikaPlast®-171 KH can be combined with all Sika® Aer, Sika® Pump, Sikacrete® PP products, but must be added separately to the mix and not premixed prior its addition. SikaPlast®-171 KH is compatible with all Portland Cement types.

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

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.

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.

ECOLOGY, HEALTH AND SAFETY

Protective measures: Avoid prolonged contact with skin, Wash off thoroughly with soap water. In case of contact with eyes or mouth, rinse immediately with clean warm water and seek medical attention without delay. Avoid contact with food stuff and utensils.

Ecology/Waste disposal: Do not dispose of into water or soil, but according to local regulations.

Transportation Class: Non-hazardous

Toxicity: Non-toxic

Sika (Cambodia) Ltd.

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

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.

SikaPlast-171KH-en-KH-(05-2025)-1-1.pdf

PRODUCT DATA SHEET

SikaPlast®-171 KH
May 2025, Version 01.01
021301011000004259