

## PRODUCT DATA SHEET

## SCG-HSP2

## High Range Water-Reducing Concrete Admixture

## DESCRIPTION

SCG-HSP2 is a highly effective water reducing agent and superplasticizer based on polycarboxylate ether (PCE) technology for promoting accelerated hardening, free flowing concrete, and good slump retention.

## USES

SCG-HSP2 is a superplasticizer for concrete in:

- Floor slabs;
- Foundations;
- Slender components with packed reinforcement;
- Walls and columns;
- Beams and ceilings.

SCG-HSP2 is a water-reducer for manufacture of:

- Pre-cast concrete elements;
- Bridges and cantilever structures;
- Pre-stressed concrete;
- Area of concrete where formwork must be removed quickly or early loading applied.

## FEATURES

SCG-HSP2 provides the following properties:

As a superplasticizer

- Substantial improvement in workability without increased water or the risk of segregation
- Normal set without retardation, even when over-dosed
- Improved density and surface finish

As a water reducer

- Up to 35% water reduction
- 40% increase in 28-day strength
- High strength after 8-hour age of curing
- Increased frost-resistance
- Increased watertightness

## CERTIFICATES AND TEST REPORTS

Complies with ASTM C 494 Type F

## PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates
Packaging	200 l / drum 1,000 l / tote or bulk
Appearance and colour	Yellow liquid
Shelf life	12 months from the date of production if it is stored properly in undamaged, original, sealed packaging
Storage conditions	Stored at temperatures between +5°C and +35°C. Protect from frost, direct sunlight, and contamination. Note: When delivered in bulk, the tanks and equipment used must be free from contaminants.
Density	1.035 - 1.055 g/cm <sup>3</sup> (25 °C (77 °F))
pH-Value	3.0 - 5.0 (25 °C (77 °F))

## APPLICATION INFORMATION

<b>Recommended dosage</b>	Typical dosage rates of SCG-HSP2 are 600 - 3,000 cc per 100 kg of cement by weight. Exact dosage rates are dependent on the type of effect sought, quality of cement and aggregates, water-to-cementitious ratio, and ambient temperature. Therefore, in many cases, it is advisable to carry out trial mixes. SCG-HSP2 is compatible with all types of Portland Cement, including S.R.C type and Hydraulic Cement.
<b>Dispensing</b>	SCG-HSP2 can be added separately to the freshly mixed concrete or directly to the mixing water prior to its addition to the aggregates. When added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter.

## BASIS OF PRODUCT DATA

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

## IMPORTANT CONSIDERATIONS

Accidental overdosing of SCG-HSP2 may cause segregation. In this case, it is advisable to prolong mixing time until concrete become normal.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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 (Thailand) Limited**  
700/37 Moo 5 Amata City Chonburi  
Industrial Estate, T. Klong Tamhru  
A. Muang, Chonburi 20000, Thailand  
Tel : +66 3810 9500  
E-mail : sikathai@th.sika.com  
Website: tha.sika.com



**Product Data Sheet**  
**SCG-HSP2**  
March 2025, Version 01.01  
021301011002242090

SCG-HSP2-en-TH-(03-2025)-1-1.pdf