

## PRODUCT DATA SHEET

# Sika® Retarder liquid

### Set retarding admixture

#### DESCRIPTION

Sika® Retarder liquid is a retarding admixture which delays the initial setting time of concrete

#### USES

- Enables homogenous setting in large monolithic construction elements
- For reinforced and pre-stressed concrete
- When wet concrete temperatures above +25 °C are expected
- Large volume pours

- Avoidance of cold joints
- Long hauls
- Revibrated concrete

#### CHARACTERISTICS / ADVANTAGES

- Increases workability time
- Enables recompaction
- Does not contain chlorides or any other substances which promote steel corrosion
- Reduces problems associated with transportation delays
- Controlled setting time

#### PRODUCT INFORMATION

Chemical Base	Modified phosphates
Packaging	200 kg drum 1000 kg IBC
Appearance / Colour	Yellowish liquid
Shelf Life	12 months from date of production
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.
Density	~1,14 kg/l
pH-Value	~8,0
Total Chloride Ion Content	< 0,1 % by weight
Equivalent Sodium Oxide	< 6,0 % by weight

#### TECHNICAL INFORMATION

##### Concreting Guidance

The standard rules of good concreting practice, concerning production and placing must be followed.

Laboratory trials must be carried out before concreting on site, especially when using a new mix design or producing new concrete components.

Fresh concrete must be cured properly and curing applied as early as possible.

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**Concrete Mix Design**

When using Sika® Retarder liquid, a suitable mix design must be calculated. The local material sources used within the mix design must always be trialled and approved for suitability before commencement of the project.

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**Curing Conditions**

The formwork for retarded concrete must not be water absorbing. Effective curing is mandatory and achieved by suitable surface protection, e.g. covering with membranes, curing compounds, watering or other approved techniques.

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**Compatibility**

Sika® Retarder liquid may be combined with many other Sika products. Trials must always be carried out before combining products in specific mixes. Contact Sika Technical Services for additional information and any specific combinations.

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**Recommended Dosage**

0,2–2,0 % by weight of cement  
Note: Application at higher dosages will increase the retardation effects.

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**Dispensing**

Sika® Retarder liquid must be measured using suitable equipment then added to the batching gauging water or both added together at the same time into the concrete mixer.

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**Restrictions**

Sika® Retarder liquid must not be added to dry cement.  
Sika® Retarder liquid must not be combined with antifreeze admixtures (setting acceleration admixtures).

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## 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.

## 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.

## 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.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal

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