

## PRODUCT DATA SHEET

Sika<sup>®</sup> Retarder-300

## RETARDER BASED ON PHOSPHATE

**DESCRIPTION**

Sika<sup>®</sup> Retarder-300 is used for the extension of the workability time of concrete.

**USES**

- Larger monolithic constructions e.g. foundations
- Ready-mixed concrete
- Concreting in hot weather

**FEATURES**

- Temporary shielding of the cement against the mixing water

- Slower formation of the reaction products (C3A Stages), which lead to stiffness and hardness
- Peaks of the hydration heat development of concrete are reduced

**CERTIFICATES AND TEST REPORTS**

EN 934-2:T8 - DoP No. 54512307  
Retarder for the production of concrete  
Meets the requirements of ZTV-ING  
Fulfils the requirements of DVGW worksheets W270 and W347

**PRODUCT INFORMATION**

<b>Composition</b>	Phosphate / Phosphonate
<b>Packaging</b>	Drum: 200 kg Container: 1000 kg Bulk: > 6 t
<b>Shelf life</b>	Minimum of 1 year shelf life in sealed containers. Mix before using after longer storage times.
<b>Storage conditions</b>	Protect against frost, strong sunlight and contamination. Utilise clean tanks and containers when delivered in bulk.
<b>Appearance and colour</b>	Fluid / Colourless
<b>Density</b>	1.08 g/cm <sup>3</sup> at +20°C
<b>pH-Value</b>	approx. 10
<b>Total chloride ion content</b>	≤ 0.10 %
<b>Equivalent sodium oxide</b>	≤ 3.5 %

# APPLICATION INFORMATION

## Recommended dosage

0.2 - 2.5 % bwoc

Initial test according to DIN EN 206-1/DIN 1045-2 is required

T concrete [°C]	w/c dosage in [%] of cement weight for a concrete workability time of [h]:				
	3	6	9	12	24
10		0.1	0.1	0.4	1.0
15		0.2	0.4	0.7	1.4
20	0.1	0.4	0.7	1.0	1.6
25	0.2	0.5	0.9	1.1	1.8
30	0.3	0.7	1.1	1.3	2.0

At CEM II/A-S: + 0.1-0.2% bwoc

At CEM III/A: - 0.1-0.2% bwoc

Initial test according to DIN EN 206-1/DIN 1045-2 is required.

## Dispensing

Add to the concrete mix at the same time as the mixing water. The effect of Sika® Retarder-300 is highly dependent on the type of cement, the temperature and the water/cement ratio.

## 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.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## 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.

## 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.

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Concrete

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Sika® Retarder-300

April 2024, Version 01.01

021406011000000190

SikaRetarder-300-en-DE-(04-2024)-1-1.pdf