

Product Data Sheet

Edition 21/02/2012

Identification no:

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Sika® Retarder

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Set-retarding concrete admixture

Product Description

Sika® Retarder is a highly efficient set-retarding admixture for structural and mass concrete where a controlled extension of setting time is required.

Uses

- Large volume pours
- Avoidance of cold joints
- Construction joints without formwork
- Long hauls
- Difficult placing conditions
- Elevated temperatures
- Revibrated concrete

Characteristics / Advantages

- Controlled setting time
- Chloride free – does not attack reinforcement

Tests

Approval / Standards

Complies with ASTM C 494-81 type B

Product Data

Form

Appearance / Colours

liquid

Yellowish

Packaging

25 Litre and 200 Litre containers

Storage

Storage Conditions / Shelf Life

12 months from date of production if stored properly in undamaged containers, in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight and frost.

Technical Data

Chemical Base

Modified Phosphates

Density

Specific density, ±1.14 (at +25°C)

pH Value

±8.00



System Information

Application Details

Dosage	0.2 – 2.0% by weight of cement. The retardation rate achieved is directly dependant on the dosage rate which in turn is influenced by quality of cement and aggregates, water: cement ratio and temperatures. In many cases it is advisable to carry out trial mixes to establish the exact dosage rate required.
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Application Conditions / Limitations

Compatibility	Sika® Retarder is compatible with all types of Portland Cement including S.R.C.
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Application Instructions

Dispensing	Sika® Retarder should be added with the mixing water or introduced at the end of the mixing process.
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Application Method / Tools	The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Fresh concrete must be cured properly.
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Cleaning of Tools	Sika® Retarder must NOT be used with anti-freeze agents
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Notes on Application / Limitations	Clean all tools and application equipment with fresh water immediately after use.
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Notes	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.
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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.
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Health and Safety Information

Protective Measures	To avoid rare allergic reactions, wear protective gloves. Change soiled work clothes and wash hands before eating and after finishing work. Local regulations as well as Health and Safety advice on packaging labels must be observed.
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Ecology

Transportation Class

Important Notes

Uncured of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the Safety Data Sheet.

Toxicity

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or access on the internet under www.sika.co.za.



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