

PRODUCT DATA SHEET

Sika Retardol[®]-25

SET RETARDING CONCRETE ADMIXTURE

DESCRIPTION

A universal liquid concrete admixture for long and medium set retardation. Sika Retardol[®] -25 meets requirements for set retarding admixtures according to SIA Standard 162 (1989) and guideline A (1982) FSHBZ. It complies with ASTM C494 type B and B.S. 5075 part I.

USES

Sika Retardol[®] -25 is used for quality concrete:

- . Where a controlled extension of setting time is required.
- . For large volume pours with simultaneous setting.
- . To avoidance of cold joints.
- . During long hauls.
- . For difficult placing conditions.
- . At elevated temperatures.
- . Where concrete needs to be re-vibrated.
- . If fast hardening after setting is an advantage and high final strengths are required.
- . Mass concrete.

CHARACTERISTICS / ADVANTAGES

Controlled extension of setting times.

- . Increased strengths.
- . Reduced shrinkage and creep.
- . Chloride free-does not attack reinforcement.

The specific advantages of Sika Retardol[®] -25 are especially visible in bridge construction and demanding industrial, high-rise and power generation build-up.

PRODUCT INFORMATION

Composition	Modified Phosphates
Packaging	5 and 20 kg pails 220 kg drums Bulk Tanks packing available upon request
Appearance / Colour	Yellowish liquid

Shelf life	12 months from date of production if stored properly in undamaged and unopened original sealed packing.
Storage conditions	Store in dry conditions, protected from direct sunlight and frost.
Density	(at 20°C) 1.100 ± 0.005 kg/l

TECHNICAL INFORMATION

Concreting Guidance	Concrete Placing Standard rules of good concrete production and placing practice must be observed when using Sika Retardol® -25.
Specific Advice	Formwork for retarded concrete must be tight and non-absorbent. Normal timber formwork is to undergo pre-wetting for a few days or must be treated with Separol® or Sika Form Oil® emulsion.
Curing Conditions	To prevent premature drying out, freshly placed concrete must be kept moist before and after setting. Either covered with plastic sheets or wet hessian or Antisol® -E as a curing compound. When wet cure, ensure that not too much water is used.

APPLICATION INFORMATION

Recommended Dosage	0.3 – 3.0 % by weight of cement. The retardation rate achieved is directly dependant on the dosage rate which influenced by: quality age of cement, aggregates, water: cement ratio, ambient temperature, temperature of fresh concrete, cement dosage... etc. It is advisable to carry out trial mixes to establish the exact dosage rate required.
Dispensing	Sika Retardol® -25 is dispensed simultaneously with the gauging water into the mixer or added mixed with the gauging water. Automatic and accurate dispensing equipment is available from Sika.

IMPORTANT CONSIDERATIONS

- Sika Retardol® -25 is compatible with all types of Portland cement including S.R.C.
 - Sika Retardol® -25 must not be used in conjunction with anti-freeze agents.
- Frozen Sika Retardol® -25 may be used without reservations if it has been thawed slowly in heated premises (not over open fire or above 50°C) and stirred thoroughly.

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

Safety precautions

- Accidental splashes to the skin must be washed off with water and soap.
- In contact with eyes or mucous membrane flush im-

mediately with clean warm water. Seek medical attention without delay.

Ecology

- Residues 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.

Transport

- Non-hazardous

Toxicity

- Non-toxic under the relevant health and safety codes.

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 re-

serves 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 in Baar.

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