

## PRODUCT DATA SHEET

## Sika® Antifreeze-S

Antifreeze for concrete and mortar

## DESCRIPTION

Sika® Antifreeze-S lowers the freezing point of the water in the concrete, which allows strength development can occur even in cold weather below freezing point of water.

## USES

- Sika® Antifreeze-S is used in concrete / mortar and gives strength development in cold weather below freezing point of water.
- Sika® Antifreeze-S shall not be used with materials that are susceptible to the alkali / silica reactions.

## CHARACTERISTICS / ADVANTAGES

- Strength development at freezing temperatures
- Reduces the risk of frost damage
- Used as granules or as liquids

## PRODUCT INFORMATION

Chemical Base	Based on inorganic salts	
Packaging	Bag 25kg	
Appearance / Colour	<b>Granulate</b> White granules	
Shelf Life	At least 18 months from the production date	
Storage Conditions	Free from frost at room temperature and in dry condition	
Density	2,2 kg/dm <sup>3</sup>	
Conventional Dry Material Content	100 weight- %	Solution: 42 ± 1 weight- %
Total Chloride Ion Content	< 0,10 % granulate weight	< 0,10 % of solution weight
Equivalent Sodium Oxide	< 30 % of granulate weight	< 18 % of solution weight

## APPLICATION INFORMATION

### Recommended Dosage

When using the product as a concrete admixture:

Outdoor temperature (°C)	Rec. dosage granules (% of cement weight)	Rec. dosage solution (% of cement weight)
0 to -5	3	6,5
-6 to -10	5	11
-11 to -15	8	18

When using Sika® Antifreeze-S in liquid, then water need to be reduced.  
For the use of Sika® Antifreeze-S as mortar admixture, see dosing instructions for Sika® Antifreeze-S at [www.sika.se](http://www.sika.se).

## 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.

## LIMITATIONS

Sika® Antifreeze-S shall not be used with materials that are susceptible to the alkali / silica reactions.

## 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.

## APPLICATION INSTRUCTIONS

- Add Sika® Antifreeze-S to the concrete mixture together with the mixing water. For accurate dosing is recommended automatic dosing equipment for weight or volume dosage. In dry handling is recommended the addition of the granulate in the draft from the mixer to the concrete truck.
- Clean the equipment with water.
- The product may also be combined with other Sika admixtures, wherein each agent is added separately.
- Mixing time is 90-180 s depending on the mixer.
- To compensate for strength losses, use of water reducing admixtures, e.g. ViscoCrete® or Sikament®.
- The effect of this admixture may vary depending on the cement used.
- Pre-test should be performed with the current materials and conditions for confirmation that the intended effect is achieved.
- Use plastic, fiberglass or stainless steel tanks when handling Sika® Antifreeze-S.

## 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.

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