

# PRODUCT DATA SHEET

## Sika® Antisol® S

LIQUID CURING AGENT FOR CONCRETE



### DESCRIPTION

Sika® Antisol® S is a ready to use spray applied liquid curing agent to prevent water loss from the surface of freshly placed concrete. It forms a liquid membrane on the concrete surface, reducing the moisture evaporation from the concrete mix.

### USES

Sika® Antisol® S provides durable and stable protection of fresh concrete from premature evaporation caused by the action of wind and sun, meaning that it averts the formation of surface cracks on hardened concrete. Sika® Antisol® S is especially suitable for vertical areas that will be covered with other coatings, such as:

- Buildings
- Manufacturing industries
- Hangars and loading areas
- Retaining walls
- Pre-stressed structures
- Irrigation channels
- Civil Engineering structures

### CHARACTERISTICS / ADVANTAGES

- Generally improves the surface appearance
- Reduces cracking
- Assists reaching the required strengths
- Reduces shrinkage
- Controls cement hydration
- Reduces dust formation
- Reduced concrete permeability
- Alleviates other costly curing methods

### APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating

### PRODUCT INFORMATION

|                            |   |
|----------------------------|---|
| <b>Composition</b>         | Aqueous solution of inorganic salts   |
| <b>Packaging</b>           | <ul style="list-style-type: none"> <li>▪ 20 kg container</li> <li>▪ 200 kg drum</li> <li>▪ IBC</li> </ul>   |
| <b>Appearance / Colour</b> | Liquid, transparent to pale yellow  |
| <b>Shelf life</b>          | 12 months from date of production   |
| <b>Storage conditions</b>  | The product must be stored in original, unopened and undamaged sealed packaging, at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost. Always refer to packaging. |
| <b>Density</b>             | ~1,1 kg/l   |

## APPLICATION INFORMATION

|                                |  |
|--------------------------------|--|
| <b>Consumption</b>             | <p>~ 180 - 200 gr/m<sup>2</sup><br/>         By spraying machine and 1 operator, approximately 1000 m<sup>2</sup> of surface can be covered in 8 hours.<br/>         Consumption depends on wind speed, temperature and humidity during application.<br/>         These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.</p> |
| <b>Ambient Air Temperature</b> | > +5 °C  |
| <b>Equipment</b>               | <ul style="list-style-type: none"> <li>▪ Hand type backpack or motorised sprayers</li> </ul> Suitability of equipment should be approved before using for full application   |

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surface must be free from surface water. Evaporation of the surface water can take from 30 minutes to 2 hours, depending on temperature and water / cement ratio.

### APPLICATION

#### Vertical Surfaces

After removing the formwork, dampen down the concrete thoroughly with fresh water allowing the surface water to drain off. Spray product in a fine mist to completely cover the concrete surface. Maintain the pressure in the application equipment to ensure a consistent spray.

#### Horizontal Surfaces

Spray product in a fine mist to completely cover the concrete surface. Maintain the pressure in the application equipment to ensure a consistent spray.

## IMPORTANT CONSIDERATIONS

- It is recommended that Sika® Antisol® S should be applied at the earliest practical time after the concrete surface is ready to receive the curing compound.
- To prevent the nozzle from blocking, regularly clean the spraying equipment during application.
- After application protect from direct sunlight, severe dry wind or rain for at least 2–3 hours, depending on the ambient conditions.
- Early application of Sika® Antisol® S will help reduce plastic shrinkage cracks from occurring by reducing the amount of water evaporating. Concrete curing compounds, however, will not counter the effects of cracking that may occur as a result of long term drying shrinkage. Standard concrete practice must apply when positioning construction joints and shrinkage control joints.

## 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.

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