

## PRODUCT DATA SHEET

# Sika® Antisol®-181 S

(formerly MKure 181S)

Silane siloxane resin based multi-role curing, sealing, priming and impregnating protective treatment for concrete

### DESCRIPTION

Sika® Antisol®-181 S is a non-degrading, membrane forming liquid based on silane siloxane resin suitable for spray application to freshly poured concrete. The resultant film retains sufficient moisture in the concrete to ensure full hydration of the cement, essential for optimum strength development. The cured concrete is typically harder and exhibits a dust free surface with a reduced incidence of drying shrinkage cracks.

Additionally, the membrane acts as a primer system for many subsequent surface finishes that do not rely on penetration for substrate bond.

When applied to floors, the Sika® Antisol®-181 S seals and dustproofs the surface, eliminating the primary source of abrasion and enhancing durability.

Suitable for use in hot and tropical climatic conditions.

### USES

Sika® Antisol®-181 S is applied to fresh concrete surfaces to form a fast drying, thin, flexible and tough impervious membrane which protects the concrete from rapid water evaporation during initial curing stages, thereby assisting towards obtaining maximum strength, durability and helping towards the elimination of shrinkage cracks and surface dusting.

Sika® Antisol®-181 S is particularly useful in large areas of exposed concrete, such as:

- Highways, runways and taxiways
- Aprons and hardstandings
- Roof decks
- Retaining walls
- Pre-stressed beams and piers
- Bridge decks, etc

### FEATURES

- Water repellent concrete
- Application by hand or power-driven equipment
- Cost efficient by saving time and reducing labour cost
- Effective in all conditions of humidity and temperature
- Single application, no further attention is required
- The finish and colour of concrete are not affected once the compound has disintegrated under the influence of ultra violet light or abrasion

Sika® Antisol®-181 S provides the following beneficial properties to concrete surfaces:

- Reduces incidence of plastic cracking
- Ensures achievement of desired strengths
- Alleviates other costly methods such as hessian-watering, etc.
- Reduces dusting
- Minimizes shrinkage

### CERTIFICATES AND TEST REPORTS

Sika® Antisol®-181 S follows the requirements of ASTM C309; Type 1; Class B

## PRODUCT INFORMATION

Composition	Specially selected chemical composition
Packaging	193 L drum
Shelf life	12 months from the date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +30°C. Mix well before using.
Appearance and colour	Clear to pale yellow liquid
Density	~0.82 kg/l (+25°C)

## APPLICATION INFORMATION

Consumption	Sika® Antisol®-181 is recommended to be applied at approx. coverage rate of 4.5 – 5.5 m <sup>2</sup> per litre. This corresponds to the rate at which Sika® Antisol®-181 S has been tested and at which it attains the claimed degree of curing efficiency. In favourable conditions such as shaded interior surfaces, adequate curing can be achieved with extended coverage rates.
Flash-off time	~2 h (+23°C) (ASTM C309)

## 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.
- Internal Reference - Version: MBS\_CC-UAE/Kure\_181S\_12\_94/v5/11\_17

## IMPORTANT CONSIDERATIONS

The resin in Sika® Antisol®-181 S ensure that bond is maintained with adhesives used for installing tiles, and other floor coverings. Sika® Antisol®-181 S will act as a primer for paint systems and will enable most surface treatments to progress with minimal delay.

Typical surface treatments that will bond to surfaces with Sika® Antisol®-181 S are:

- Water based emulsion paints containing PVA, PVC or acrylic co-polymers.
- Tile adhesives based on the above polymers.
- Bituminous emulsions and solutions.
- Polymer modified cement systems.
- For other surface treatment, pull-off test is recommended for compatibility.

When using Sika® Antisol®-181 S for floor areas where maximum chemical and wear resistance is required, it is recommended that a further coat be applied after 24 hours.

## 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.

## APPLICATION INSTRUCTIONS

### APPLICATION

The compound should be spray applied as evenly as possible to the freshly placed concrete. For horizontal surfaces the Sika® Antisol®-181 S should be applied as soon as the initial surface sheen has disappeared from the concrete face. In the case of formed concrete, the product should be applied immediately on removal of the formwork.

## 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 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.

### Sika Gulf B.S.C. (c)

Tel: +973 177 38188  
Email: info@bh.sika.com  
Sika Kuwait Cons. Mat. & Paints Co WLL  
Tel: +965 22 282 296  
Email: sika.kuwait@kw.sika.com  
Web: gcc.sika.com

### Sika UAE LLC

Sika MB Construction Chemicals LLC  
Sika International Chemicals LLC  
Tel: +971 4 439 8200  
Email: info@ae.sika.com  
Web: gcc.sika.com

### Sika Saudi Arabia Limited

Sika Construction Chemicals for  
Manufacturing LLC  
Riyadh / Jeddah / Dammam / Rabigh  
Tel: +966 12 692 7079  
Email: info@sa.sika.com  
Web: gcc.sika.com

### Sika LLC - Oman

Master Builders Solutions LLC  
(part of Sika)  
Tel. +968 22 826 500  
Email: info@om.sika.com  
Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS  
- Sika UAE LLC  
- Sika International Chemicals LLC  
- Sika Gulf B.S.C. (c)  
ISO 9001, 14001 – SGS  
- Sika Saudi Arabia Limited  
ISO 9001, 14001 – TÜV  
- Sika MB Construction Chemicals LLC  
- Sika Construction Chemicals for Manufacturing LLC  
- Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



### Product Data Sheet

Sika® Antisol®-181 S

September 2024, Version 02.01  
021405031000000188