

# PRODUCT DATA SHEET

## Sikalite® AE

### INTEGRAL WATERPROOFING ADMIXTURE FOR MORTAR AND CONCRETE

#### DESCRIPTION

Sikalite® AE is a ready to use powdered waterproofing admixture for cement / sand mortars and concrete. Suitable for use in hot and tropical climatic conditions.

#### USES

Sikalite® AE is used to provide waterproof structural concrete or cement/sand mortars, screeds and renders for walls, facades, floor toppings and jointing mortars.

#### CHARACTERISTICS / ADVANTAGES

Sikalite® AE contains pore sealing and water-repelling substances which provide the following beneficial properties:

- Reduction in permeability
- Increased durability

#### PRODUCT INFORMATION

<b>Composition</b>	Blend of organic and inorganic chemicals
<b>Packaging</b>	1 kg and 5 kg bags
<b>Appearance / Colour</b>	Beige powder
<b>Shelf life</b>	12 months from date of production if stored properly
<b>Storage conditions</b>	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight, heat and moisture.
<b>Density</b>	~0.90 kg/l (+25 °C)
<b>Total Chloride Ion Content</b>	Nil (EN 934-2)

#### TECHNICAL INFORMATION

<b>Concreting Guidance</b>	<p>The standard rules of good concreting practice for production and placing must be observed when using Sikalite® AE in concrete. Refer to relevant standards.</p> <p>Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian.</p>
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## Concrete Mix Design

The concrete should contain a minimum cement content of 350 kg/m<sup>3</sup> and a maximum w/c ratio of 0.45.  
A suitable mix design must be selected for the local material sources being used.

## APPLICATION INFORMATION

### Recommended Dosage

2 % by weight of binder.  
Other dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements.  
Trial mixes must be performed to establish the exact dosage rate required.

### Compatibility

Sikalite® AE may be combined with all types of Portland cement (OPC and SRC), concretes containing pozzolanic materials such as; GGBS, PFA and micro-silica.  
We recommend performing trial mixes to establish the required performance when combining Sikalite® AE with the above products or other admixtures. Please consult our Sika Technical Department.

### Dispensing

Sikalite® AE is best added with the dry aggregates and sand to the mixer prior to the addition of the cement and water.  
For optimum utilization of the product we recommend thorough mixing at a minimal wet mixing time of 60 seconds.

## IMPORTANT CONSIDERATIONS

When using Sikalite® AE a mix design must be selected for the local material sources used and trial mixes performed to verify suitability.

Before pouring concrete, suitability tests on the fresh concrete must be carried out and take special care that formwork is properly installed and secured to prevent grout loss and possible honeycombs.

## 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.

## 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 the exact product data and uses.

## 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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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 OHSAS  
18001.

### Product Data Sheet

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