

# PRODUCT DATA SHEET

## Sikament<sup>®</sup>-600 N

HIGH PERFORMANCE PLASTICISING AND SLUMP RETAINING

CONCRETE ADMIXTURE

### DESCRIPTION

Sikament<sup>®</sup>-600 N is a highly effective dual action liquid superplasticiser that imparts excellent slump retention for prolonged periods. It is used for the production of free flowing concrete or as a substantial water-reducing agent for promoting high early strengths. Suitable for use in hot and tropical climatic conditions.

### USES

Sikament<sup>®</sup>-600 N can be used as a superplasticizer for the production of free flowing concrete for:

- Slabs and foundations
- Walls, columns and piers
- Piles
- Structures with densely packed reinforcement

It is also used as a water-reducing agent leading to high early strength concrete such as:

- Pre-cast concrete elements
- Pre-stressed concrete
- Bridges and cantilever structures

### CHARACTERISTICS / ADVANTAGES

Sikament<sup>®</sup>-600 N provides the following properties:

As a Superplasticiser:

- Workability is greatly improved
- Concrete is placed easily
- Especially suitable for slender components with densely packed reinforcement Concrete requires less vibrating
- Improved cohesion of the concrete mix significantly reduces the risk of segregation and allows greater time for placement

As a Water Reducer:

- Impressive water reduction capability
- Final strength improvement

### APPROVALS / CERTIFICATES

Sikament<sup>®</sup>-600 N follows the requirements of ASTM C494; Type G and EN 934-2

### PRODUCT INFORMATION

<b>Composition</b>	Sulphonated naphthalene
<b>Packaging</b>	1000 L flow bins. Bulk supply in tanker trucks possible on request.
<b>Appearance / Colour</b>	Brown liquid
<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 and frost.
<b>Density</b>	~1.22 kg/l (+25 °C)
<b>Total Chloride Ion Content</b>	Nil (EN 934)

## TECHNICAL INFORMATION

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### Concreting Guidance

The standard rules of good concreting practice for production and placing must be observed when using Sikament®-600 N in concrete. Refer to relevant standards.

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.

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## APPLICATION INFORMATION

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### Recommended Dosage

0.6 - 1.6 % by weight of binder

Higher dosages up to 2.0 % 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.

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### Compatibility

Sikament®-600 N may be combined with all types of Portland cement, concretes containing pozzolanic materials such as; GGBS, PFA, micro-silica and the following Sika products:

SikaPump®

Sika® FerroGard®-901

SikaFume®

SikaFiber®

Sika Aer®

Sika® Stabilizer

Sika®-1 WT

We recommend to perform trial mixes to establish the required performance when combined with the above products. Please consult our Sika Technical Department.

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### Dispensing

Sikament®-600 N is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant.

Do not add Sikament®-600 N directly to the dry mix.

For optimum utilization we recommend thorough mixing at a minimum wet mixing time of 60 seconds.

The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time to avoid surplus water in the concrete.

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## IMPORTANT CONSIDERATIONS

Before pouring suitability tests on the fresh concrete must be carried out.

Due to the extended workability take special care that formwork is properly installed and secured.

When accidental overdosing occurs the set retarding effect and workability increases. Additional air may also be entrained.

During this period the concrete must be kept moist in order to prevent premature drying out.

## 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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ISO 9001: Sika UAE LLC,  
Sika Gulf B.S.C. (c),  
Sika Saudi Arabia Co. Ltd,  
Sika Qatar LLC  
ISO 14001: Sika UAE LLC,  
Sika Gulf B.S.C. (c),  
Sika Saudi Arabia Co. Ltd  
OHSAS: Sika UAE LLC,  
Sika Gulf B.S.C. (c)

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

Sikament®-600 N

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