

## PRODUCT DATA SHEET

# Sikament<sup>®</sup>- NNS LB

Multi-Purpose Highly Effective Water-Reducer Concrete Admixture

### DESCRIPTION

Sikament<sup>®</sup>- NNS LB is a chloride-free, highly effective Water-reducer concrete admixture that acts as a multi-purpose admixture in terms of enhanced water-reducing efficiency and improved free flowing effect to produce high-performance concrete. A substantial water reducing agent for promoting high, early, and ultimate strengths.

### USES

- High water reducing effect
- Workability especially where difficult placing conditions are encountered and to obtain dense concrete.
- A normal set with no retardation.
- Decreases the concrete permeability.
- Used for: Slabs, foundations, walls, columns, piers, piles, slender...
- Suitable for: Pre-stressed concrete, precast concrete, bridges & Cantilevers...

### CHARACTERISTICS / ADVANTAGES

- Increased setting times at elevated temperatures
- Long lasting control of slump loss.
- Reduced water without loss of workability.
- Improved workability without increased water content.
- Reduced shrinkage and creep. Improved surface finish.
- Increased strength.
- Chloride free.

### APPROVALS / CERTIFICATES

### PRODUCT INFORMATION

<b>Composition</b>	Modified naphthalene sulfonate
<b>Packaging</b>	Bulk deliveries in 1200 Kg IBC
<b>Appearance / Color</b>	Brown Liquid
<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 in dry conditions at temperatures between +10 °C and +30 °C. Always refer to packaging.
<b>Specific gravity</b>	1.21 ± 0.015 Kg/lit
<b>pH-Value</b>	7.5 - 10.0 (Approx.)

## APPLICATION INFORMATION

<b>Recommended dosage</b>	0.6 - 2 % of cement weight Exact dosage rates are dependent on the type of effect sought, quality of cement and aggregates, water/ cement ratio and ambient temperature. Therefore, in many cases it is advisable to carry out trial mixes.
<b>Compatibility</b>	Sikament®- NNS LB may be combined with many other Sika products. Trials must always be carried out before combining products in specific mixes. Contact Sika Technical Services for additional information and any specific combinations. Sikament®- NNS LB is compatible with all types of Portland Cement, including SRC type and Hydraulic Cement.
<b>Dispensing</b>	Sikament®- NNS LB can be added separately to the freshly mixed concrete or directly to the mixing water prior to its addition to the aggregates. When added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter.
<b>Restrictions</b>	Sikament®- NNS LB must not be added to dry cement. Concrete shall be designed in accordance with ACI 211.1-89 standard recommended practice for selecting proportions for concrete and shall contain a superplasticizer which shall be Sikament®- NNS LB as manufactured by Sika. It shall be used in strict accordance with the manufacturer's recommendations.

## 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.

## IMPORTANT CONSIDERATIONS

Accidental overdosing of Sikament®- NNS LB may cause segregation. In this case, it is advisable to prolong mixing time until concrete become normal.

## LOCAL RESTRICTIONS

Please note that because 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.

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## 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 Material Safety Data Sheet 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.