

PRODUCT DATA SHEET

Sikament[®] NN LB

HIGH RANGE LIQUID WATER REDUCER / SUPERPLASTICISER ADMIXTURE FOR CONCRETE

DESCRIPTION

A highly effective water-reducing agent and superplasticizer based on naphthalene technology for promoting accelerated hardening and free flowing concrete.

USES

- Slabs and foundations
- Walls, columns and piers
- Beams and ceilings
- Slender components with densely packed reinforcements
- Sprayed concrete
- Textured surface finishes
- Pre-cast and pre-stressed concrete elements
- Bridges and cantilever structures
- Area of concrete where formwork must be removed quickly, or early loading applied

PRODUCT INFORMATION

Composition	Naphthalene Sulfonate
Packaging	20 Kg Plastic Jerry cans, Bulk deliveries in 1200 Kg IBC
Appearance/Color	Liquid / brown
Shelf life	12 months from date of production
Storage conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +45 °C. Always refer to packaging.
Specific gravity	1.2 ± 0.015 Kg/lit
pH-Value	7.5 - 10.0 (Approx.)

CHARACTERISTICS / ADVANTAGES

- Improved workability
- Improves concrete placement
- Especially suitable for slender components with congested reinforcement
- Improved compacting behavior
- Improves cohesion of the concrete mix which significantly reduces the risk of segregation

APPROVALS / CERTIFICATES

Complies with ASTM C 494 Type A & F

APPLICATION INFORMATION

Recommended dosage	0.6 - 3 % 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.
Compatibility	Sikament® NN 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® NN LB is compatible with all types of Portland Cement, including SRC type and Hydraulic Cement.
Dispensing	Sikament® NN 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.
Restrictions	Sikament® NN 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® NN 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® NN LB may cause segregation. In this case, it is advisable to prolong mixing time until concrete become normal. Excessive water addition may cause bleeding or segregation.

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.

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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.

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