

Technical Data Sheet

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Version no. 2

Sikament® NN-LB

Construction

Sikament® NN-LB**High Range Water-Reducing Admixture.****Product Description**

Sikament NN-LB is a highly effective dual action liquid superplasticizer for the production of free flowing concrete or as a substantial water-reducing agent for promoting high early and ultimate strengths.

Uses

Sikament® NN-LB is used as a superplasticizer in the production of free flowing concrete such as :

- Slabs and foundations
- Walls, columns and piers
- Slender components with densely packed reinforcement
- Piles
- Textured surface finishes

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
- Concrete where formwork must be removed quickly or early loading applied

Advantages

Sikament® NN-LB provides the following properties:

- As a Super-plasticizer:
 - Workability is greatly improved
 - Increased placeability in slender components with densely packed reinforcement.
 - Normal set without retardation.
 - Significantly reduces the risk of segregation
- As a Water Reducer:
 - Up to 34% water reduction.
 - 16 Hours compressive strengths increased by up to 100%
 - 28 days strengths improved by 40%
 - Increased water tightness
- Chloride free.

Test Standards

Sikament® NN-LB complies with ASTM C494 Type F and B.S.5075 Part 3 1983

Product Data**Colour & Type**

Brown Liquid
Modified Naphthalene formaldehyde Sulphonate.

Storage

Stored in dry conditions at temperatures between +5 °C and +35 °C.
Protect from direct sunlight
Protect from frost.



Shelf life 12 months from date of production if stored properly in original unopened packing.

Packaging 250 Kg drums and 1200 Kg flow bins
Bulk supply in tanker trucks possible on demand

Technical Data

Density (at 20 °C) Approximately 1.20 kg/it ± 0.015kg/it

Chloride content Nil

Notes on application

Dosage 0.6% - 3.0% by weight of cement.
Exact dosage rates are dependent on the type of effect required, quality of cement, aggregates, water cement ratio and ambient temperature. Therefore, in many cases it is advisable to carry out trial mixes. Sikament® NN-LB is compatible with all types of Portland cements including S.R.C..

Dispensing Sikament NN-LB can be added to the mixing water prior to its addition to the aggregates or directly to the freshly mixed concrete (the plasticizing effect is more pronounced). For Ready-mix concrete, Sikament NN-LB is added to the concrete immediately prior to discharge and after further mixing has taken place for three minutes.

Curing 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.

Compatibility Sikament® NN-LB is compatible with sulphate resistant cement.

Cleaning Clean all equipment and tools with water immediately after use.

Remarks When accidental overdosing occurs, the set retarding effect increases. During this period the concrete must be kept moist in order to prevent premature drying out.

Safety instructions

Safety precautions Product may cause skin irritation. Wear gloves and goggles and apply barrier cream to hands. In contact with eyes or mucous membrane, flush immediately with plenty of warm water and seek medical attention without delay.

Ecology Do not dispose of into water or soil but according to local regulations.

Transport Non-hazardous.

Toxicity Non-toxic

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 practice, the differences in materials, substratum 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request



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