BUILDING TRUST

PRODUCT DATA SHEET

Sikament® LN

High Range Water Reducing

DESCRIPTION

A highly effective water reducing agent and superplasticizer for promoting accelerated hardening with high workability. Complies with A.S.T.M. C 494-92 Type F.

USES

Sikament® LN is a high range water reducing concrete admixture specially formulated for the precast concrete element industry; to meet the demand of early removal of formwork due to the early strength gain. Enables concrete placing equipment to be used to its full capacity. Effective throughout dosage range.

FEATURES

Sikament® LN provides the following properties :

- Up to 20 % reduction of water will produce 40 % increase in 28 days compressive strength.
- Increased watertightness.

PRODUCT INFORMATION

Composition	Modified Naphthalene Formaldehyde Sulfonate	
Packaging	240 kg drum Bulk delivery	
Appearance and colour	Liquid / Dark brown	
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed container.	
Storage conditions	Store in dry conditions at temperatures between +10 °C and +35 °C. Protect from direct sunlight and frost.	
Density	at +20 °C	1.22 ± 0.01 kg/L

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible.

APPLICATION INFORMATION

Recommended dosage	Sikament® LN can be used at the dose rate 0.30 % - 2.0 % by total weight of cementitious material depending on requirements concerning workability and strength. It is recommended that trial mixes be conducted to determine the exact dosage rate required. Note : ▪ Typical dosage rate for use with silica sand is 0.30 % - 1.20 % by weight of cementitious material. ▪ Typical dosage rate for use with combination of manufactured sand / volcanic sand is 0.4 % - 2.0 % by weight of cementitious material. For more specific requirements, advice is available from our Technical Service Department to determine the usage rate for optimum results.
Compatibility	Sikament® LN may be combined with the following products: ▪ Plastiment® P121R ▪ Plastiment® VZ ▪ Sika® Fume ▪ SikaFibre® Do not use sikament series combined with viscocrete / viscoflow series. To produce flowing and / or self-compacting concrete, special concrete mix design is required. Pre-trials are recommended and mandatory if combinations with the above products are required. Please consult to our Technical Service Department.

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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

DISPENSING

Sikament® LN can be added to the gauging water prior to its addition to the dry aggregates or separately to the freshly mixed concrete (on the batching plant or on site into the truck mixer) where added to truck mixer on site, further mixing for three to five minutes should be carried out.

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 exact product data and uses.

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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