

PRODUCT DATA SHEET

Sikament® NN

High Range Water Reducer / Superplasticiser Admixture For Concrete

DESCRIPTION

Sikament® NN is a highly effective admixture for concrete especially suitable for the production of dual action liquid superplasticiser for the production of free flowing concrete and for the production of high strength concrete, especially in hot climatic conditions.

USES

- Concrete with strong fluidity
- High quality concrete
- Sprayed concrete
- Textured surface finishes
- Pre-cast and pre-stressed concrete elements

CHARACTERISTICS / ADVANTAGES

As Superplasticizer

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

As high range water-reducer

- Up to 25% of water reduction.
- Pronounced increase of final strength.
- 16 hours compressive strength increased by up to 100%(depende on dosage).
- Reduced permeability for water.

APPROVALS / CERTIFICATES

Complies with ASTM C 494 type F / EN 934-2

PRODUCT INFORMATION

Composition	Naphthalene formaldehyde sulphonate
Packaging	<ul style="list-style-type: none"> ▪ 1000 litres IBC, ▪ 200 litres Drum, ▪ 20 litres Jerrycan,
Shelf life	12 months from date of production
Storage conditions	The 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.
Appearance and colour	Dark brown

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Sikament® NN

March 2023, Version 01.04

021302011000000072

Density	1.2 ± 0.03
pH-Value	8.5 ± 1
Total chloride ion content	< 0.1% (EN 934-2)

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice, concerning production and placing must be followed. Laboratory trials must be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as early as possible.
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APPLICATION INFORMATION

Recommended dosage	0.5 - 3% by weight of cement, depending on the requested performance of the concrete. It is advisable to carry out trial mixes to establish the exact dosage rate required.
Dispensing	Sikament® NN must be measured using suitable equipment then added to the batching gauging water or both added together at the same time into the batching plant concrete mixer. Sikament® NN can also be added to the concrete immediately prior to discharge and after further mixing has taken place for at least three more minutes.
Compatibility	Sikament® NN may be combined with many other Sika products. Trials must always be carried out before combining products in specific mixes.

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.

LIMITATIONS OF USE

- We recommend previous tests to determine the correct dosage of the admixture and whenever concrete composition is changed.
- 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.

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.

APPLICATION INSTRUCTIONS

CLEANING OF EQUIPMENT

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

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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