

PRODUCT DATA SHEET

Sikament[®] NN

High Range Liquid Water Reducer / Superplasticiser Admixture For Concrete

DESCRIPTION

Sikament[®] NN is a highly effective dual action liquid superplasticiser for the production of high slump concrete or as a substantial water reducing agent.

USES

- Slabs and foundations
- Walls, columns and piers
- Slender components with densely packed reinforcements
- Sprayed concrete
- Textured surface finishes
- Pre-cast and pre-stressed concrete elements
- Bridges and cantilever structures

CHARACTERISTICS / ADVANTAGES

- 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

APPROVALS / CERTIFICATES

This product cannot be legally placed on the market in countries of the European Union, Switzerland, Norway and Turkey. (Delete for countries outside the application of EU Construction products regulations). Local organisation to arrange CE Marking.

PRODUCT INFORMATION

Composition	Organic polymer blend
Packaging	Bin Drum IBC Bulk supply Refer to current price list for packaging variations
Appearance / Colour	Liquid / brown
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.
Density	~1,24 kg/l at +25 °C
pH-Value	~7
Conventional dry material content	~42 %

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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.
Concrete mix design	When using Sikament® NN, a suitable mix design must be calculated. The local material sources used within the mix design must always be trialled and approved for suitability before commencement of the project.

APPLICATION INFORMATION

Recommended dosage	0,5–2,5 % by weight of cement
Compatibility	Sikament® NN 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.
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. To achieve the optimum performance, a wet mixing time at the batching plant of at least 60 seconds is recommended (dependant on mixing conditions and mixer performance). To avoid excess water in the concrete, the final dosage must begin after 2/3 of the wet mixing time.
Restrictions	Sikament® NN must not be added to dry cement.

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

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.

LIMITATIONS

- Excessive water addition or overdosing may cause bleeding or segregation.
- If frozen and/or separation of the product has occurred, Sikament® NN may be used after thawing slowly at room temperature and intensive mixing.

Before application, suitability tests must be performed.

- The w/b-ratio and consistence control remains the responsibility of the concrete producer. Laboratory trials are recommended to evaluate and confirm the actual water reduction.
- The chemical and physical composition of the components, concrete, Sikament® NN, concrete and ambient temperature can affect the setting time of the concrete.

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.

SIKA (MYANMAR) LIMITED

No.31, Mahabandula Street, South

Dagon

Kyansittar Yeik Mon Industrial Zone,

Yangon, Myanmar.

Phone: +959 798366081, +951 657970-2

E-mail: myanmar.sales@mm.sika.com

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