

PRODUCT DATA SHEET

Sikament[®] NN

HIGH RANGE WATER REDUCER ADMIXTURE

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 for promoting high early and ultimate strength.

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

Sikament[®] NN meets and exceeds all requirements of Australian Standard 1478.1-2000 for High Range Water Reducing Admixture (HWR).

PRODUCT INFORMATION

Composition	Aqueous solution of sodium naphthalene formaldehyde sulphonate (SNS).
Packaging	Bulk supply, 1000 litre IBC, 205 litre drum, 10 litre container.
Appearance / Colour	Dark brown liquid
Shelf life	Stored at temperatures between 5°C and 35°C in unopened original containers protected from direct sunlight and from frost, shelf life is one (1) year.
Storage conditions	Store at temperature between 5°C and 35°C protected from direct sunlight.
Density	~1,20 g/cm ³

TECHNICAL INFORMATION

APPLICATION INFORMATION

Recommended Dosage	Depending on the workability required, Sikament [®] NN is normally added at dose rates between 500 to 1500 ml per 100kg cementitious. Exact dosage rate should be determined by site trials.
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Compatibility

Sikament® NN may be combined with many other Sika Concrete admixtures. When combined with a PCE based water reducer may lead to inconsistent results. 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 is best added directly to the freshly mixed concrete. To achieve the optimum performance, a wet mixing time at the batching plant of at least 60 seconds/m³ is recommended (dependent 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. Sikament® NN can also be added to the premix truck on site. In this case, concrete should then be mixed for a further three minutes before placement.

Restrictions

Sikament® NN must not be added to dry cement.

IMPORTANT CONSIDERATIONS

- 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.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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.

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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Product Data Sheet

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