

PRODUCT DATA SHEET

Sikament® NN

High Range Liquid Water Reducer / Superplasticizer Admixture For Concrete

DESCRIPTION

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

- Complies with ASTM C494 Type F.

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

Sikament® NN provides the following properties:

As a Superplasticizer:

- Workability is greatly improved
- Increased place ability in slender components with packed reinforcement
- Decreases the amount of vibration
- Normal set without retardation
- Significantly reduces the risk of segregation

PRODUCT INFORMATION

Chemical Base	Naphthalene Formaldehyde Sulfonate	
Packaging	5 L/container 10 L/container	210 L/drum
Appearance / Colour	Brown liquid	
Shelf Life	12 months from date of production if stored properly	
Storage Conditions	Store properly in unopened and undamaged original sealed containers protected from direct sunlight & moisture at temperatures between +5°C and +30°C.	
Specific gravity	~ 1.180 - 1.200	

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	Mix	Dosage and when added	Slump (cm)
	1	Without Sikament® NN	5
	2	1% Sikament® NN with gauging water	12
	3	1% Sikament® NN immediately after making original concrete and further mixing for 1 min.	15
	4	1% Sikament® NN, 0.5 hr. after making up concrete or further mixing for 1 min.	16
Concrete consistency measured in terms of slump to DN1048 - with Sikament® NN added at different times.			
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.		

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.

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 water/binder-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.

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.

LOCAL RESTRICTIONS

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

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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