

PRODUCT DATA SHEET

Sikament® NN GB

HIGH PERFORMANCE SUPERPLASTICIZER

DESCRIPTION

Sikament® NN GB is a high-performance superplasticizer and water reducer.

USES

Sikament® NN GB is formulated for applications in systems with high calcium sulfate content or pure gypsum binders. The product is especially suitable for the manufacture of gypsum products.

CHARACTERISTICS / ADVANTAGES

The benefits of Sikament® NN GB include, but are not limited to the following:

- High water reduction
- Excellent flowability
- Rapid adsorption
- Very low retardation
- Compatible with other additives

Especially when utilized for gypsum board production the use of Sikament® NN GB may result in:

- Short mixing time
- Shorter drying time
- Improved shrinkage and creep behavior
- Higher strength adjustable
- Reduced energy consumption & CO₂-emission
- Increased production rate and thus enlarged capacity
- Overall reduction in production costs

PRODUCT INFORMATION

Chemical base	Aqueous solution of polynaphthalene sulfonate
Packaging	200 L IBC of 1'000 L net
Appearance / Colour	Brown liquid
Shelf life	12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage conditions	Storage at temperatures between 5 °C and 30 °C. Protect from direct sunlight, frost and contamination.
Density	1.190–1.220 g/cm ³

APPLICATION INFORMATION

Recommended Dosage

Dosage range for typical applications: 0.8–1.6 % by weight of binder. Differences in calcium sulfate binder type, raw material sources, calcining methods, age and storage conditions of the binder and other individual parameters at the plant and/or job site can influence the superplasticizer consumption of gypsum binders. At high dosage bleeding and/or segregation may occur as well as retardation of setting.

Note: Preliminary testing is required to determine the exact dosage for your specific conditions. Please contact our technical service for more information and assistance.

Compatibility

Sikament® NN GB may be combined with many other Sika products as well as with most commonly used gypsum additives, like foaming agents, accelerators and retarders. In combination i.e. with Retardan improvements in flowability and setting-time adjustment may be achieved.

Note: Always conduct trials before combining products in specific mixes and contact our technical service for information about specific combinations with Sika products.

DISPENSING

Sikament® NN GB is added to the gauging water or added with it into the mixer.

APPLICATION INSTRUCTIONS

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

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 Material Safety Data Sheet 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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