

PRODUCT DATA SHEET

Sikament[®] NNG GH

Superplasticizer / High range water-reducer

DESCRIPTION

Sikament[®] NNG is a highly effective admixture for concrete especially suitable for the production of free flowing concrete and for the production of high strengths concrete, especially in hot climatic conditions.

USES

Sikament[®] NNG acting as superplasticizer or as high range water-reducer, promotes a very high plasticity and good slump keeping properties to concrete.

Sikament[®] NNG is mainly used for the following applications:

- Concrete with strong fluidity.
- High quality concrete.
- Concrete applied in precast.
- Concrete submitted to long transportation, delayed placing and high temperatures.
- Concrete with high water reduction while maintaining favourable consistency enabling good early strength development.

CHARACTERISTICS / ADVANTAGES

Sikament[®] NNG provides the following properties:

As superplasticizer

- Workability is greatly improved.
- Increase place ability in slender components with densely packed reinforcement.
- Enables easy placing, less vibration needed.
- Good slump keeping effect.

As high range water-reducer

- Up to 20% of water reduction.
- Pronounced increase of final strengths.
- Reduced permeability for water.

PRODUCT INFORMATION

Product declaration

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Composition

Packaging	- 5 Litres, 25 Litres, 200 Litres, and 1000 Litres - Bulk deliveries upon request
Shelf life	12 months minimum from production date if stored properly in original unopened, sealed and undamaged packaging
Storage conditions	Store in a dry area between 5°C and 35 °C. Protect from direct sunlight.
Appearance and colour	Dark brown Liquid.
Bulk density	1.23 + 0.03 Kg/Ltr
pH-Value	9.0 ± 1
Total chloride ion content	< 0.1%
Recommended dosage	According to the main goal we recommend the following dosages: 0.6 - 3.0% by weight of cement. It is advisable to carry out trial mixes to establish the exact dosage rate required.
Dispensing	Sikament® NNG can be added to the mixing water prior to its addition to the aggregates or directly to the freshly mixed concrete (the plasticizing effect is more pronounced). Never add Sikament® NNG directly to dry cement or aggregates (efficiency water reduction). Sikament® NNG can also be added to the concrete immediately prior to discharge and after further mixing has taken place for at least three more minutes.
Material temperature	Between 5°C and 35 °C.

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

MIXING

Sikament® NNG can be added to the mixing water prior to its addition to the aggregates or directly to the freshly mixed concrete (the plasticizing effect is more pronounced). Never add Sikament® NNG directly to dry cement or aggregates (efficiency water reduction).
Sikament® NNG can also be added to the concrete immediately prior to discharge and after further mixing has taken place for at least three more minutes.

APPLICATION METHOD / TOOLS

Sikament® NNG allows the production of high performance concrete, as long as the composition is well design and standard rules of good concreting practice are followed (production as well as placing).
Fresh concrete must be cured properly and as early as

possible especially in hot climatic conditions in order to prevent plastic and drying shrinkage.

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 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, must be inferred either from this information, or from any written recom-

mendations, or from any other advice offered. 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 Product Data Sheet for the product concerned, copies of which will be supplied on request or accessed on the Internet under nga.sika.com.

Sika Chemicals Ghana Ltd
Kpone Rd, Kpone Katamanso
GK-0028-7646 Greater Accra, Ghana
Mobile: +233 025 795 9292
Web: gha.sika.com

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