

# PRODUCT DATA SHEET

## Sikament<sup>®</sup>-4101 NS

### WATER REDUCING PLASTICIZING CONCRETE ADMIXTURE

#### DESCRIPTION

Sikament<sup>®</sup>-4101 NS Imparts high workability and gives workability retention.

#### USES

Sikament<sup>®</sup>-4101 NS a plasticizer for free flowing concrete in floor, slabs, foundations, slender components with dense reinforcement, walls, columns, pavements and other structural and non structural elements. Specially recommended for the following types of concrete:

- Ready mix concrete
- Pre cast concrete
- Site batched concrete

#### CHARACTERISTICS / ADVANTAGES

Sikament<sup>®</sup>-4101 NS produces a more uniformly cohesive high quality free flowing concrete. It has following advantages :

- Improved water reduction.
- Improved strength and density
- Improved consistence retention
- Improved durability
- Improved water tightness/ water proofed concrete
- Improved surface finish
- Improved cohesion properties
- Suitable for hot weather conditions
- Water reduction up to 15-20 % depending on dosage\*

\* This will depend on dosage and mix design

#### APPROVALS / CERTIFICATES

Complies with ASTM C494 - 81 type A, B & D, IS 9103-1999

#### PRODUCT INFORMATION

Composition	Modified Napthalene Formaldehyde Sulphonate
Packaging	230 kg HDPE carboy
Appearance / Colour	Dark Brown Liquid
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.
Density	~1.17 kg/l at 25°C
pH-Value	≥ 6

#### APPLICATION INFORMATION

**Recommended Dosage** Standard dosage will vary from 0.5% to 1.5% by weight of cement. Exact dosage rates are dependent on the quality of cement, aggregates, water/cement ratio and ambient temperature. Therefore, in many cases it

is advisable to carry out trial mixes.  
Higher dosage may be used if agreed by engineer and consultant.  
Stir well before use.

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**Compatibility**

Sikament®-4101 NS may be combined with many other Sika® products.  
Important: Always conduct trials before combining products in specific mixes and combinations. Compatible with all types of cement and cementitious material

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## APPLICATION INSTRUCTIONS

### DISPENSING

Sikament®-4101 NS can be added into the mixing water or directly into the concrete mixer after 50 – 70% of the mixing water has been added.

The addition of Sikament®-4101 NS to dry aggregate or cement is not recommended.

To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.

### IMPORTANT CONSIDERATIONS

Excessive water addition or overdosing may cause bleeding or segregation.

Overdosing may cause extension of initial and final setting times.

If frozen and / or if precipitation has occurred, Sikament®-4101 NS may be used after thawing slowly at room temperature and after intensive mixing.

### 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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