

# PRODUCT DATA SHEET

## Sikament® NN TH

HIGH RANGE LIQUID WATER REDUCER / SUPERPLASTICISER ADMIXTURE FOR CONCRETE



TIS 733-2530

### DESCRIPTION

A highly effective water-reducing agent and superplasticizer based on superimposed naphthalene technology for promoting accelerated hardening and free flowing concrete.

### USES

- Slabs and foundations
- Walls, columns and piers
- Beams and ceilings
- Slender components with densely packed reinforcements
- Sprayed concrete
- Textured surface finishes
- Pre-cast and pre-stressed concrete elements
- Bridges and cantilever structures
- Area of concrete where formwork must be removed quickly or early loading applied

### FEATURES

- 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

### CERTIFICATES AND TEST REPORTS

Complies with ASTM C 494-81 Type A & F

### PRODUCT INFORMATION

|  |   |
|--|---|
| <b>Composition</b>                       | Superimposed Naphthalene Sulfonate  |
| <b>Packaging</b>                         | 200 liter drum, 1,000 liter IBC   |
| <b>Shelf life</b>                        | 12 months from date of production   |
| <b>Storage conditions</b>                | The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +45 °C. Always refer to packaging. |
| <b>Appearance and colour</b>             | Liquid / brown  |
| <b>Specific gravity</b>                  | 1.215 - 1.245   |
| <b>Conventional dry material content</b> | 39.0 - 41.0   |
| <b>pH-Value</b>                          | 6.0 - 9.0 Approx.   |

# APPLICATION INFORMATION

|                           |  |
|---------------------------|--|
| <b>Recommended dosage</b> | 600 - 3,000 cc. per 100 kg. of cement weight<br>Exact dosage rates are dependent on the type of effect sought, quality of cement and aggregates, water/ cement ratio and ambient temperature. Therefore, in many cases it is advisable to carry out trial mixes.   |
| <b>Dispensing</b>         | Sikament® NN TH can be added separately to the freshly mixed concrete or directly to the mixing water prior to its addition to the aggregates. When added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter.  |
| <b>Compatibility</b>      | Sikament® NN TH 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.<br>Sikament® NN TH is compatible with all types of Portland Cement, including SRC type and Hydraulic Cement. |

## 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.

## IMPORTANT CONSIDERATIONS

Accidental overdosing of Sikament® NN TH may cause segregation. In this case, it is advisable to prolong mixing time until concrete become normal. Excessive water addition may cause bleeding or segregation.

## 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.

## 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.

**Sika (Thailand) Limited**  
700/37 Moo 5 Amata City Chonburi  
Industrial Estate, T. Klong Tamhru  
A. Muang, Chonburi 20000, Thailand  
Tel : +66 3810 9500  
E-mail : sikathai@th.sika.com  
Website: tha.sika.com



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