

# PRODUCT DATA SHEET

## Sikament<sup>®</sup>-5114 NS

### SUPERPLASTICIZING ADMIXTURE

#### DESCRIPTION

Sikament<sup>®</sup>-5114 NS Imparts high workability, prolonged workability retention and allows a large decrease in water content

#### USES

Sikament<sup>®</sup>-5114 NS a superplasticizer for free flowing concrete in floor, slabs, foundations, slender components with dense reinforcement, walls and columns and other structural and non structural elements.

Specially recommended for the following types of concrete:

- High performance concrete
- Ready mixed concrete
- Pumped concrete
- Site batched concrete

#### CHARACTERISTICS / ADVANTAGES

Sikament<sup>®</sup>-5114 NS produces a more uniformly cohesive high quality free flowing concrete. It has following advantages :

- High water reduction.
- Higher strength and density
- Improved consistence retention
- Improved durability
- Improved water tightness
- Improved surface finish
- Improved cohesion properties
- Suitable for hot weather conditions

#### APPROVALS / STANDARDS

IS 9103, ASTM C494

#### PRODUCT INFORMATION

|                            |  |
|----------------------------|--|
| <b>Chemical Base</b>       | Modified Napthalene Formaldehyde Sulphonate  |
| <b>Packaging</b>           | 275 kg/ Bulk supply  |
| <b>Appearance / Colour</b> | Dark Brown Liquid  |
| <b>Shelf Life</b>          | 12 months from date of production if stored properly in undamaged unopened, original sealed packaging.   |
| <b>Storage Conditions</b>  | Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost. |
| <b>Density</b>             | ~ 1.27 kg/l at 25°C  |
| <b>pH-Value</b>            | ≥ 6  |

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## APPLICATION INFORMATION

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|---------------------------|--|
| <b>Recommended Dosage</b> | 0.5% to 2.0% by weight of cement. Higher dosage may be used if agreed by engineer and consultant<br>Actual dosage to be finalised on the basis of site trials. Stir well before use.   |
| <b>Compatibility</b>      | Sikament®-5114 NS may be combined with many other Sika® products. Compatible with all types of cements and cementitious materials.<br>Important: Always conduct trials before combining products in specific mixes and combinations. |

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## APPLICATION INSTRUCTIONS

### DISPENSING

Sikament®-5114 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®-5114 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.

### LIMITATIONS

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®-5114 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

## ECOLOGY, HEALTH AND SAFETY

## 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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