

# PRODUCT DATA SHEET

## Sikament<sup>®</sup> N

### HIGH RANGE WATER REDUCING ADMIXTURE

#### PRODUCT DESCRIPTION

Sikament<sup>®</sup> N is a high range water reducer. Sikament<sup>®</sup> N meets the requirements for ASTM C-494 Types A and F.

#### USES

Sikament<sup>®</sup> N is recommended for use by ready-mix and precast concrete producers whenever the manufacture of high strength concrete products requires high plasticity and increased early and ultimate strengths.

#### CHARACTERISTICS / ADVANTAGES

**Water Reduction:** Sikament<sup>®</sup> N allows up to 30 % water reduction when used as a high range water reducing admixture. Sikament<sup>®</sup> N delivers high strength concrete with increased early and ultimate compressive and flexural strengths.

**High Plasticity:** The superplasticizing action of Sikament<sup>®</sup> N provides excellent workability and concrete will flow easily at very low water cement ratio's.

**For Precast and Architectural Concrete:** Sikament<sup>®</sup> N produces flowing concrete that requires less vibration while delivering a finished product with improved surface finish and overall aesthetics. Higher early strengths allow faster demolding and more efficient production. Sikament<sup>®</sup> N will not affect the color of concrete.

Sikament<sup>®</sup> N reduces bug holes, and its superplasticizing action provides the following benefits:

- Accelerated early strength gains allow faster demolding and more efficient use of forms.
- Higher ultimate strengths for cost effective high performance concrete.
- Increased slump improves workability and increases labor productivity.
- Normal setting time even at high dosage rates.
- Full flow action aids in pumping and reduces need for vibration.
- Greater concrete density reduces permeability and increases durability.

Sikament<sup>®</sup> N does not contain calcium chloride or any other intentionally added chlorides and will not initiate or promote the corrosion of steel in the concrete.

#### PRODUCT INFORMATION

<b>Packaging</b>	Sikament <sup>®</sup> N is supplied in 55 gallon (208 liter) drums and bulk delivery.
<b>Appearance / Color</b>	Dark Brown liquid
<b>Shelf Life</b>	Shelf life when stored in dry warehouse conditions between 50 °F and 80 °F (10–27 °C) is one year minimum.
<b>Storage Conditions</b>	Sikament <sup>®</sup> N should be stored at above 35 °F (2 °C). If frozen, thaw and agitate thoroughly to return to normal state before use.

## APPLICATION INFORMATION

### Recommended Dosage

Dosage rates will vary depending on the material used, ambient conditions and the requirements of a specific project. For general concreting applications, Sika recommends a dosage rate of between 6–20 fl. oz. per 100 lbs. (390–1300 ml/100 kg) cement. Higher dosages may be used. Please consult your local Sika representative for more information and assistance.

### Mixing

For best superplasticizing results, add Sikament® N directly to freshly mixed concrete in the concrete mixer at the end of the batching cycle.

Sikament® N may also be dispensed as an integral material during the regular admixture batching cycle, or into freshly mixed concrete in a Ready-Mix truck at the concrete plant or at the job site.

To optimize the superplasticizing effect, after the addition Sikament® N Sika recommends that the combined materials be mixed for 80-100 revolutions, either in the concrete mixer or in the Ready-Mix truck.

**Combination with other Admixtures:** Sikament® N is highly effective as a single admixture or in combination with any other admixtures in the Sika System. If used in combination with polycarboxylate-based admixture it may affect the plastic properties of fresh concrete.

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKAs Technical Service Department at 800-933-7452. Nothing contained in any SIKAs literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKAs product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKAs product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKAs SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR**

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