

PRODUCT DATA SHEET

Sikament® SPMN

HIGH RANGE WATER REDUCING ADMIXTURE

PRODUCT DESCRIPTION

Sikament® SPMN is a blended high range water reducing admixture formulated to increase water reduction and produce highly fluid concrete. Sikament® SPMN meets the requirements of ASTM C494 / AASHTO M194 Type A & F.

USES

Sikament® SPMN can be used in all types of concrete including ready-mix, non-reinforced and reinforced, extruded, precast and prestressed concrete applications.

CHARACTERISTICS / ADVANTAGES

Water Reduction:

Sikament® SPMN delivers multi-range water reduction for high strength concrete with increased early and ultimate compressive and flexural strengths.

High Plasticity:

The superplasticizing action of Sikament® SPMN provides excellent workability and concrete will flow easily at very low water cement ratio's.

- Increased strength due to ability to reduce water-cementitious ratio and enhanced cement dispersion.
- Increased workability.
- Easier and faster pumping of concrete with reduced pump pressure.
- Increased durability.
- Improved mix stability even at high workability.
- Reduced permeability.
- Improved appearance of concrete.
- Improved finishing characteristics for flatwork.

Sikament® SPMN does not include intentionally added chlorides.

PRODUCT INFORMATION

Packaging	Sikament® SPMN is available in 55 gallon drums (208 liters) and bulk delivery.
Appearance / Color	Brown Liquid
Shelf Life	Shelf life when stored in dry warehouse conditions between 40 °F and 80 °F (5–27 °C) is one year from date of manufacture.
Storage Conditions	Sikament® SPMN should be stored above 35 °F (2 °C). If frozen, thaw and agitate thoroughly to return to a normal state. Protect from direct sunlight.
Specific gravity	Approx. 1.190

APPLICATION INFORMATION

Recommended Dosage

The typical dosage range for Sikament® SPMN is 2-15 fluid ounces per 100 lbs. (130-1000 ml per 100 kg) of cementitious material. For maximum water reduction, dosage rates up to 30 fluid ounces per 100 lbs. (2000 ml per 100 kg) of cementitious material may be used.

Dosage rates vary depending upon the amount of plasticity and/or water reduction desired. Slump, ambient temperature, water-cementitious ratio, mixing time and various concrete materials, such as type of cement and supplementary cementitious materials, will affect dosage rates. It is recommended to conduct trial mixes with the actual materials to determine the required dosage for optimum performance.

To the extent specialized materials (such as microsilica) are specified, extreme ambient project conditions are encountered, or other unusual project conditions require special consideration outside the recommended dosage, please contact your local regional Sika office or Sika technical service department at 1-800-933-7452 prior to using the Sika admixture.

Mixing

Measure the required quantity manually or by automated dispenser. Add Sikament® SPMN directly into the freshly mixed concrete, or as an integral material in the batching cycle. Do not mix with dry cement. Sikament® SPMN may be dispensed on site directly prior to placement. Care must be taken to mix thoroughly. When used in combination with other admixtures dispense each admixture separately into the mix.

Compatibility:

Sikament® SPMN is highly effective as a single admixture or in combination with other Sika admixtures. If used in combination with polycarboxylate-based admixtures, including but not limited to Sika® ViscoCrete® and Sika® ViscoFlow® products, it may affect the concrete properties. Sikament® SPMN can be used in mix designs utilizing supplementary cementitious materials.

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.

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.

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

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 or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA 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. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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