

PRODUCT DATA SHEET

Sikament[®] SPMN

HIGH RANGE WATER REDUCING ADMIXTURE

PRODUCT DESCRIPTION

Sikament[®] SPMN is an efficient blended superplasticizer which allows to reduce water content in concrete mixes. Sikament[®] SPMN produces highly fluid concrete which is easy and fast to place. Sikament[®] SPMN is especially designed for horizontal work with improved finishing characteristics. Sikament[®] SPMN meets the requirement of ASTM C 494, Type A and F admixture.

USES

Sikament[®] SPMN can be used in all types of concrete including plain, reinforced, extruded, precast and prestressed concretes. Sikament[®] SPMN is especially effective in concrete containing pozzolanic materials such as fly ash, silica fume or slag. Sikament[®] SPMN is a non-chloride based admixture.

CHARACTERISTICS / ADVANTAGES

- Increased strength due to ability to reduce water-cementitious ratio and enhanced cement dispersion.
- Dramatically improved finishing characteristics for flatwork.
- 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 architectural concrete.

PRODUCT INFORMATION

Packaging	Sikament [®] SPMN is available in 55 gallon drums (208 liters), 275 gallon totes (1040 liters) and bulk delivery.
Appearance / Color	Brown Liquid
Shelf Life	Shelf life when stored in dry warehouse conditions between 50 °F and 80 °F (10–27 °C) is 1 year from the date of manufacturer.
Storage Conditions	Sikament [®] SPMN should be kept from freezing. If accidentally frozen, its properties can be restored by thawing and thoroughly re-mixing by mild mechanical agitation.
Specific Gravity	Approx. 1.19

APPLICATION INFORMATION

Recommended Dosage

For most applications, the dosage rate of Sikament® SPMN is between 2 to 15 fl. oz. / 100 lbs. (0.13 to 1.0 L / 100 kg) of total cementitious material. The dosage can be increased up to 30 fl. oz. / 100 lbs. (2 L / 100 kg) or above if higher water reduction is needed or to meet specific requirements of concrete.

Dosage rates vary depending upon the amount of plasticity and / or water reduction desired. Various concrete materials, slump, ambient air temperature, additions of pozzolanic materials, mixing time, and type and brand of cement will affect dosage rates.

It is recommended that trial mixes be conducted in order to determine the required dosage for optimum performance with your concrete components. Consult your local Sika representative or Sika Technical Services Department at 1-800-933-7452 for dosage recommendations.

Mixing

Sikament® SPMN can be dispensed into any of the concrete materials except dry cement, slag or fly ash. For optimum results, introduce Sikament® SPMN toward the end of the mixing process. Sikament® SPMN maintains its superplasticized consistency for up to 90 minutes depending on the environmental conditions. Ambient temperature, transport distance and job site delays may dictate job site addition of Sikament® SPMN. The addition of this product at the job site requires thorough mixing at high speed. Completing the mixing process with two minutes of mixing at slow speed will minimize the on-site air entrainment.

Compatibility: Combining Sikament® SPMN with any Polycarboxylate based admixture may result in a rapid slump loss. Mixing and transporting equipment should be thoroughly washed between subsequent batches of concrete containing admixtures with Polycarboxylates and Sikament® SPMN. Sikament® SPMN is compatible with other Sika non-polycarboxylate based admixture. However, each admixture should be added separately to the mix. Sikament® SPMN is compatible with all types of ordinary portland cements and 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.

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 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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