

Sikament® SPMN

High Range Water Reducing Admixture

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.

Applications 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.

Advantages

- Increased strength due to ability to reduce water-cement 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.

How to Use

Dosage The recommended dosage range for Sikament SPMN is 10.0 to 40.0 ounces per 100 lbs. (650 to 2,600 ml/100kg) of cementitious material; higher dosages may be required depending on the mix design and concrete requirements. 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 jobsite delays may dictate jobsite 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.

Packaging	Sikament SPMN is available in 55 gallon drum (208 liter), 275 gallon (1040 liters) totes and bulk delivery.
Storage and Shelf Life	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. Shelf life when stored in dry warehouse conditions between 50°F and 80°F (10°C - 27°C) is 1 year from the date of manufacturer.
Typical Data	
Appearance	Brown liquid.
Specific Gravity	Approx. 1.20
Caution	CAUTION: IRRITANT. Contains Triethanolamine (CAS: 102-71-6) and 2,2-iminodiethanol (CAS: 111-42-2). May cause eye/skin/respiratory tract irritation. May cause gastrointestinal disturbance if swallowed. WARNING! This product contains a chemical known in the State of California to cause cancer.
Handling and Storage	Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.
First Aid	Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation – Remove to fresh air. Ingestion – Do not induce vomiting. Dilute with water. Contact physician. In all cases contact a physician immediately if symptoms persist.
Clean Up	Use personal protective equipment (chemical resistant gloves/ goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations.

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

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Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: (201) 933-8800
Fax: (201) 933-6225
www.sikausa.com

Sika Canada Inc.
601, Delmar Avenue
Pointe-Claire, QC H9R 4A9
Phone: (514) 697-2610
Fax: (514) 697-3087
www.sika.ca

1-800-933-SIKA



Regional Information and Sales Centers. For the location of your nearest Sika representative, contact your regional center.

U.S. : **North East Region:** Fairless Hills, PA, Phone: (215) 295-6600 **North Central Region:** Marion, OH, Phone: (800) 851-1545
South East Region: Conyers, GA, Phone: (770) 760-1300 **South Central Region:** Mesquite, TX, Phone: (972) 289-6480
Western Region: Santa Fe Springs, CA, Phone: (562) 903-3650

Canada: **Ontario:** Mississauga, ON, Phone: (905) 795-3177, **Alberta:** Edmonton, AB, Phone: (780) 486-6111

Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Marion: FM 69715, Kansas City: FM 69107, Santa Fe Springs: FM 69408

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