

PRODUCT DATA SHEET

Sikament[®]-525

MID-RANGE WATER REDUCING/SUPERPLASTICISING ADMIXTURE

DESCRIPTION

A mid-range water reducing/superplasticising admixture for providing substantial water reduction and good workability retention for the production of high performance concrete.

USES

Sikament[®]-525 is used in the production of concrete in:

- Applications that require high quality concrete
- Applications that require improved consistence retention
- High performance concrete

CHARACTERISTICS / ADVANTAGES

Sikament[®]-525 provides the following properties :

- Workability is greatly improved. Increased placeability in slender components with packed reinforcement
- Water reduction upto 10 % – 15 % will produce more than 20 % increase in 7 and 28 days compressive strength
- Significantly reduces risk of segregation and bleeding
- Less sensitive to variations in cement and aggregate types
- Improved cohesion properties
- Improved rheology

PRODUCT INFORMATION

Chemical base	Modified Naphthalene Formaldehyde Sulfonate
Packaging	200 L drum 1 000 L bulk delivery
Appearance / Colour	Liquid / Dark brown
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost.
Density	1.20 ± 0.01 kg/ L (at +20 °C)
Total Chloride Ion Content	< 0.1 % w/w

TECHNICAL INFORMATION

Concreting Guidance

The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible.

Specific Advice

Accidental overdosing of Sikament®-525 causes an extension of the initial set however, no excessive amount of additional air will be entrained.

APPLICATION INFORMATION

Recommended Dosage

Sikament®-525 can be used at the dose rate 0.35 % - 1.20 % by total weight of cementitious material depending on requirements concerning workability and strength. It is recommended that trial mixes be conducted to determine the exact dosage rate required.

Note :

Typical dose rate is 0.50 % - 0.60 % by weight of cementitious material for normal precast concrete application.

For more specific requirements, advice is available from our Technical Service Department to determine the usage rate for optimum results.

Compatibility

Sikament®-525 may be combined with the following products:

- Plastiment® P121R
- Plastiment® VZ
- Sika® Fume
- SikaFibre®

Do not use sikament series combined with visocrete / viscoflow series.

To produce flowing and / or self-compacting concrete, special concrete mix design is required.

Pre-trials are recommended and mandatory if combinations with the above products are required.

Please consult to our Technical Service Department.

APPLICATION INSTRUCTIONS

DISPENSING

Sikament®-525 can be added to the mixing water prior to its addition to the aggregates or as in most cases, it can be added directly to the freshly mixed concrete.

When added directly to the freshly mixed concrete, the plasticizing effect is more pronounced.

When accidental overdosing occurs, Sikament®-525 does not entrain excessive amounts of air, however workability, risk of segregation and set retarding effect may increase.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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.

PT. Sika Indonesia

Jl. Raya Cibinong-Bekasi km.20.

Cileungsi, Bogor 16820 - Indonesia

Tel. +62 21 8230025

Fax. +62 21 8230026

Website: idn.sika.com

email: sikacare@id.sika.com



Sikament-525_en_ID_(08-2017)_1_1.pdf

Product Data Sheet

Sikament®-525

August 2017, Version 01.01

021302011000000147