

PRODUCT DATA SHEET

Sikament[®]-520N

HIGH RANGE WATER-REDUCING AND SET RETARDING CONCRETE ADMIXTURE

DESCRIPTION

Sikament[®]-520N is a highly effective superplasticizer with a set-retarding effect for producing free-flowing concrete in hot climates. Also, a substantial water reducing agent for promoting high early and ultimate strengths.

USES

Sikament[®]-520N is used wherever high quality concrete is demanded under difficult placing and climatic conditions

CHARACTERISTICS / ADVANTAGES

Sikament[®]-520N provides the following properties:

As a Superplasticizer:

- Substantial improvement in workability without increased water or the risk of segregation
- Longlasting control of slump loss.
- No adverse effect on ultimate strengths

As a Water Reducer:

- Early strengths significantly increased
- High ultimate strengths
- Up to 30% water reduction
- Especially suitable for hot climates
- No excessive air-entrainment
- No adverse shrinkage effect
- Improved surface finish
- Increased watertightness

APPROVALS / CERTIFICATES

Complies with ASTM C-494 Type G

PRODUCT INFORMATION

Composition	Blended Polymer
Packaging	200 L/ drum 1,000 L/ tote
Appearance / Colour	Brown Liquid
Shelf life	12 months from the date of production If stored properly in undamaged, original, sealed packaging.
Storage conditions	Store in dry conditions, protected from direct sunlight at temperature between 5°C and 40°C
Density	1.195 - 1.215 kg/L (at +25°C)
pH-Value	~ 6.5 - 8.5

TECHNICAL INFORMATION

Concrete Mix Design

	High Strength Concrete	Flowing Concrete
Cement	425 kg/m ³	425 kg/m ³
W/C	0.32	0.36
S/A	0.39	0.45
Sikament®-520N	1.2% bwc	1.4% bwc

APPLICATION INFORMATION

Recommended Dosage	800 - 2,500 cc. per 100 kg. of cement weight. Exact dosage rates are dependent on the type of effect sought, quality of cement and aggregates, Water/Cement-ratio and ambient temperature. Therefore, it is advisable to carry out trial mixes.
Compatibility	Sikament®-520N is compatible with all types of Portland Cement, including S.R.C. type and Hydraulic Cement.
Dispensing	Sikament®-520N can be added separately to the freshly mixed concrete or directly to the mixing water prior to its addition to the aggregates. When added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter.

IMPORTANT CONSIDERATIONS

When accidental overdosing occurs, the set retarding effect increases. During this period the concrete must be kept moist in order to prevent premature drying out.

BASIS OF PRODUCT DATA

All technical data stated in this Product 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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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 Material Safety Data Sheet 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.

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