

PRODUCT DATA SHEET

Sikament® VS-1

High range water reducing/superplasticizing admixture for concrete

DESCRIPTION

Sikament® VS-1 is an effective water reducing superplasticizing admixture of the third generation that gives the concrete good workability and good strength development. Sikament® VS-1 provides concrete softening properties and has also a very short mixing time.

USES

Sikament® VS-1 is mainly used for the following applications:

- Prefabricated concrete
- Normal concrete
- Self-drying concrete
- Concrete with low W/C-ratio
- High strength concrete

But also where a short slump life and setting time is required.

FEATURES

Sikament® VS-1 provides good dispersing properties that gives short mixing time.

- Fast setting
- Excellent workability
- Good early strength development
- Short mixing time

CERTIFICATES AND TEST REPORTS

CE Marking and Declaration of Performance to EN 934-2 - Admixtures for concrete, mortar and grout - High range water reducing/super plasticizing admixtures. Certificate number: 2719-CPR-704.

PRODUCT INFORMATION

Packaging	Can 20 kg, barrel 210 kg, IBC 1100 kg and tanker truck.
Shelf life	9 months from date of production (tanker truck 16 months).
Storage conditions	Storage temperature between +5 °C and +30 °C. Protect from direct sunlight and frost. Use clean tanks for storage. These should be cleaned and disinfected at least once a year. Stirring must be done mechanically or with circulation pumping.
Appearance and colour	Light yellow turbid liquid
Density	1,06 ± 0,02 kg/m ³
Conventional dry material content	30 ± 1,5 weight-%
Viscosity	Easy flow able liquid
pH-Value	4 ± 1
Total chloride ion content	< 0,10 % by weight

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TECHNICAL INFORMATION

Concreting guidance

- Automatic dosing equipment by weight or volume is recommended, observe density and dry content.
- Add Sikament® VS-1 at the earliest stage with the mixing water. To optimize the effect of the admixture wait approx. 20-30 seconds. This must be checked in each specific concrete mix and mixing equipment to receive the maximum effect.
- Segregation of the concrete can occur when overdosing the admixture. The retarding effect of Sikament® VS-1 is moderate when using the recommended dosage.
- Recommended mixing time is 30-180 s due to type of mixer.
- The effect of this admixture is strongly effected by which cement type is in use.
- Clean dosing equipment with water.
- Use plastic, glass fiber or stainless steel tanks when storing Sikament® VS-1.

APPLICATION INFORMATION

Recommended dosage

0,1-1,5 % by cement weight

Compatibility

Sikament® VS-1 can be combined with Sika's other concrete admixtures, although every admixture needs to be added separately to the concrete.

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.

IMPORTANT CONSIDERATIONS

Pre trials shall be performed according to required concrete standards with actual materials to clarify the right effect is achieved with Sikament® VS-1.

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.

LOCAL RESTRICTIONS

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

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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