

PRODUCT DATA SHEET

SikaTard[®]-1 VN

HYDRATION CONTROLLING ADMIXTURE

DESCRIPTION

SikaTard[®]-1 VN is a hydration controlling admixture to control the hydration of cement.

The use of SikaTard[®]-1 VN allows the concrete producer to stabilize concrete mixes for long periods without negatively affecting concrete durability.

SikaTard[®]-1 VN meets the requirements of ASTM C494 type B and type D.

USES

SikaTard[®]-1 VN is mainly suitable for the manufacture of concrete for RMC plants and site batch concrete.

SikaTard[®]-1 VN is used for the following types of concrete:

- Transport freshly batched ready mix concrete for long distances.
- For better control of concrete set time in hot and cold weather concreting applications.

- Large concrete pours; to help prevent cold joints.
- Pumping long distances.
- Utilize returned concrete and wash water applications.
- Stabilize shotcrete mixes.
- Whenever controlled set time or cement hydration is required.

CHARACTERISTICS / ADVANTAGES

SikaTard[®]-1 VN effects the following concrete properties:

- Increases workable life of concrete up to several hours.
- Allows controlled delay in set time.
- Provides flexibility in planning and scheduling concrete pours.
- Allows returned concrete to be re-used.

PRODUCT INFORMATION

Chemical base	Blend of carbohydrate in water.
Packaging	200 / 1000 L
Appearance / Colour	Liquid / dark brown
Shelf life	12 months if stored properly in original unopened packaging.
Storage conditions	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +30 °C.
Density	1.120 – 1.140 kg/l (at 20°C)
pH-Value	5.50 – 7.50 (at 25°C)

TECHNICAL INFORMATION

Concreting Guidance

Concrete placing: With the use of SikaTard®-1 VN, concrete of highest quality is being produced, however state of the art concrete technology, such as mixing, placing vibrating and curing must be respected and applied.
Curing: Effective measures for concrete curing must be followed.

Specific Advice

SikaTard®-1 VN is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix.
For optimum utilization of the high range water reducer we recommend a minimum wet mixing time of 60 seconds.
When adding the balance of the batching water to adjust concrete consistency this should be done after a minimum of 2/3 of the wet mixing time to avoid surplus water in the concrete.

APPLICATION INFORMATION

Recommended Dosage

0.2 – 1.0 L per 100 kg of cement/binder
Typical 0.3 – 0.6 L per 100 kg of cement/binder

Compatibility

SikaTard®-1 VN may be combined with all Sikament®, SikaPlast®, Sika ViscoCrete®, Sika® Aer, Sika® Pump, Sikacrete® PP-1 products, but must be added separately to the mix and not pre-mixed prior its addition.
SikaTard®-1 VN is compatible with all Portland Cement types.

IMPORTANT CONSIDERATION

Overdosing will result in increased workability and setting time of the Concrete, however, provided that curing is effective, ultimate concrete strength and properties will not be affected.

Accurate dispensing equipment can be supplied by Sika Limited (Vietnam).

Use an appropriate concrete mixer and do not mix by hand.

Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

Protective measures: Avoid prolonged contact with skin. Wash off thoroughly with soap water.

In case of contact with eyes or mouth, rinse immediately with clean warm water and seek medical attention without delay.

Avoid contact with food stuff and utensils.

Ecology / Waste disposal: Do not dispose of into water or soil, but according to local regulations.

Transportation class: Non-hazardous

Toxicity: Non-toxic

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.

Sika Limited (Vietnam)
Nhon Trach 1 Industrial Zone,
Nhon Trach Dist., Dong Nai Province,
Tel: (84-251) 3560 700
Fax: (84-251) 3560 699
sikavietnam@vn.sika.com
vnm.sika.com



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