

PRODUCT DATA SHEET

SikaTard[®]-932

Long-time retarding shotcrete admixture

PRODUCT DESCRIPTION

SikaTard[®]-932 extend the storage time of fresh concrete up to 24 hours. The admixture has no significant effect of the concrete setting time, compressive strength, fracture toughness or adhesion after spraying of shotcrete.

USES

SikaTard[®]-932 is mainly developed for long-time retardation of shotcrete for wet sprayed applications.

CHARACTERISTICS / ADVANTAGES

- Increases the workability time of concrete up to several hours (up to 24h).
- Provides flexibility in planning and scheduling concrete pours.
- Long distance transport of concrete for shotcrete applications.

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 934-5 - Admixtures for sprayed concrete - Consistence control admixtures. Certificate number: 2719-CPR-704.

PRODUCT INFORMATION

Packaging	Can 23 kg, drum 230 kg, IBC 1150 kg and tanker truck.
Shelf Life	9 months from date of production
Storage Conditions	Storage temperature between +5 °C and +35 °C. Protect from direct sunlight and frost. Use clean tanks for storage. Stirring must be done mechanically or with circulation pumping.
Appearance / Colour	Transparent viscous liquid
Density	1,15 ± 0,03 kg/dm ³
Conventional Dry Material Content	27 ± 1,35 weight-%
pH-Value	4 ± 1
Total Chloride Ion Content	<0.10 % by weight
Equivalent Sodium Oxide	<6.0 % by weight

TECHNICAL INFORMATION

Concreting guidance

- Add SikaTard®-932 at the earliest stage with the mixing water.
 - The admixture shall not be added directly to the dry cement.
 - Automatic dosing equipment for weight dosing is recommended.
 - In stationary mixers, a mixing time of 1,5-3 minutes is usually required.
 - Rotary truck mixing requires 5-7 minutes at the highest rotation speed.
 - For some mixtures, loss of workability may occur. The concrete mix may need to be remixed at certain intervals.
 - Clean dosing equipment with water.
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APPLICATION INFORMATION

Recommended Dosage

- 0,25-1,20% of the cement weight.
 - As a guideline, 0,6% dosage gives about 8 hours of retardation.
 - The dosage requirement varies depending of type of cement and temperature.
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Compatibility

SikaTard®-932 can be combined with Sika's other concrete admixtures, although every admixture needs to be added separately to the concrete.

VALUE BASE

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

LIMITATIONS

Pre trials shall be performed according to required concrete standards with actual materials to clarify the right effect is achieved with SikaTard®-932.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

LOCAL RESTRICTIONS

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

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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