

PRODUCT DATA SHEET

Sikament[®]-2000 AT

HIGH RANGE WATER REDUCING AND SET RETARDING CONCRETE ADMIXTURE

DESCRIPTION

Sikament[®]-2000 AT is used as highly effective water-reducing agent and superplasticizer with set retarding effect for the production of high strength concrete in hot climates.

Sikament[®]-2000 AT complies with ASTM C494 Type G.

USES

Sikament[®]-2000 AT is used especially for high strength concrete that needs long lasting slump retention under hot climate condition e.g:

- Cast-on-site prestressed concrete
- High strength bored piles
- Bridges and cantilever structures
- Slender components with densely packed reinforcement

CHARACTERISTICS / ADVANTAGES

Sikament[®]-2000 AT provides the following properties:

- Substantial improvement in workability without increased water
- Allow substantial cement reduction compared to plain concrete
- Significant increase of ultimate strength
- Especially suitable for concreting at elevated temperatures
- Long lasting slump retention
- Improved surface finish
- Reduced shrinkage and creep
- Chloride free

PRODUCT INFORMATION

Chemical base	Blend of naphthalene formaldehyde sulphonate and organic agent
Packaging	5 / 25 / 200 L
Appearance / Colour	Liquid / Dark brown
Shelf life	Min. 1 year if stored properly in original unopened packaging
Storage conditions	Dry, cool, shaded place
Density	1.175–1.215

TECHNICAL INFORMATION

Specific Advice	All Portland cement including sulfate resistant cement
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APPLICATION INFORMATION

Recommended Dosage	0.60–1.20 L per 100 kg of cement (Depend on cement type & brand) Typical: 0.80–1.10 L per 100 kg of cement Overdosing: Accidental overdosing of Sikament®-2000 AT causes an extension of the initial setting time.
Compatibility	Possible to combine with all Sikament®, Sika® Aer, Sika® Pump, Sikacrete® PP-1, but must be added separately to the mix and not pre-mixed prior addition.
DISPENSING	Sikament®-2000 AT can be added to the gauging water prior to its addition to the dry mix or separately to the freshly mixed concrete (on the batching plant or on job site into the truck mixer). When added directly to the freshly mixed concrete, the plasticizing effect is more pronounced.

IMPORTANT CONSIDERATION

Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. If assistance is required, please contact the Sika Technical Service Department.

- Accurate dispensing equipment can be supplied by Sika Ltd. Vietnam.
- Use an appropriate mixer and do not mix by hand.
- Curing treatment - use of Sika curing compounds to cure concrete properly is advisable.

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

Ecology: Do not dispose into water

Transportation class: Non-hazardous

Waste disposal: As per local law

Important notes: Avoid contact with foodstuffs and utensils. Avoid prolonged skin contact.

In the event of contamination wash thoroughly with water. If the eyes or mouth are affected wash with clean water and obtain medical attention immediately.

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.

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