

Sikament® 163 EX -HV

High range water-reducing concrete admixture

Description Sikament 163 EX-HV is used as highly effective water-reducing agent and superplasticizer for the production of high strength concrete in hot climates. The dual action of Sikament 163 EX HV promotes accelerated hardening with high early and ultimate strength.

Sikament 163 EX HV complies with ASTM C494 Type A & F.

Uses *As a superplastiziser, Sikament 163 EX HV is used for flowing concrete in:*

- Slabs and foundations
- Walls and columns
- Slender components with densely packed reinforcements
- Beams

As a substantial water-reducing agent, Sikament 163 EX HV is used where high early and ultimate strength is required, such as:

- Prestressed concrete
- Concrete elements manufactured in precast factories, where rapid demoulding and early loading application is required
- Bridges and cantilever structures

Advantages Sikament 163 EX HV provides the following properties:

- Substantial improvement in workability without increased water
- Accelerated hardening after setting
- Significant increase of early and ultimate strength, by over 30%
- Especially suitable for concreting at elevated temperatures
- Increased water tightness
- Improved surface finish
- Reduced shrinkable and creep
- Chloride free. Does not attack reinforcement
- Increased resistant to wear and abrasion

Product Data

Form/colour Liquid/Brown

Packaging 5/ 25/ 200 ltr

Storage Store in shaded place

Shelf life 1 year when unopened. Stored in shaded and dry place



Technical Data

Base	Modified lignoSulphonate
Chloride content	Nil
Specific gravity	1.15- 1.17 kg/l

Application

Dosage	0.6 – 1.4 ltr per 100 kg of cement
Typical dosage	0.8 – 1.2 ltr per 100 kg of cement
Compatibility	Possible to combine with all Sikament, Sika Aer, Sika Pump, Sikacrete PP1, but must be added separately to the mix and not pre-mixed prior addition.

Cement types	All Portland cement including sulfate resistant cement.
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Dispensing	<p>Sikament 163 EX HV 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 site into the truck mixer).</p> <p>When added directly to the freshly mixed concrete, the plasticizing effect is more pronounced.</p> <p>For ready-mix concrete, Sikament 163EX HV is added to the concrete immediately prior to discharge and after further mixing has taken place for three minutes.</p>
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Overdosing	Accidental overdosing of Sikament 163 EX HV causes an extension of the initial setting time. However, no excessive amount of additional air will be entrained.
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Notes on application/Limits	<ul style="list-style-type: none"> ■ 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
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Health and Safety information

Ecology	Do not dispose into water lines
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Transportation	Non hazardous
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Disposal	According to local law
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Important notes	Sika products are generally quite harmless, provided normal precautions are taken when handling chemicals. Avoid contact with foodstuffs and utensils. Avoid prolonged skin contact. Wear protective clothing, gloves, goggles, etc. 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.
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Disclaimer	<p><i>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.</i></p>
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