

Sikament® -163

High Range Water Reducing Concrete Admixture

Product Description	<p>Sikament® -163 is used as a highly effective water-reducing agent and super-plasticizer for the production of high quality concrete in hot climates.</p> <p>The dual action of Sikament® -163 promotes accelerated hardening with high early and ultimate strengths.</p> <p>It complies with ASTM C-494 Type A&F and B.S. 5075 Part 3.</p>
Uses	<p>As a super plasticizer, Sikament®-163 is used for flow concrete in:</p> <ul style="list-style-type: none">■ Slabs and foundations.■ Walls and columns.■ Slender components with densely packed reinforcements■ Beams and ceilings <p>As a substantial water-reducing agent, Sikament® -163 is used where high early and ultimate strength is required, such as:</p> <ul style="list-style-type: none">■ Prestressed concrete■ Concrete elements manufactured in Precast factories, where rapid demoulding and early load application is required■ Bridges and cantilever structures.
Advantages	<p>Sikament® -163 provides the following properties:</p> <ul style="list-style-type: none">■ Substantial improvement in workability without increased water.■ Normal set without retardation.■ Accelerated hardening after setting.■ Significant increase of early and ultimate strengths.■ Especially suitable for concreting at elevated temperatures.■ Increased water tightness.■ Improved surface finish.■ Reduced shrinkage and creep.■ Chloride-free-does not attack reinforcement.
Technical Data	
Base	Synthetic Type Dispersion
Appearance / Colour	Brown liquid
Density (at 20°C)	1.200 (ASTM C494)
Packaging	5 and 20 kg pails 220 kg drums Bulk Tanks packing available upon request
Storage Conditions	Store in dry conditions, protected from direct sunlight and frost.
Shelf Life	12 months from date of production if stored properly in undamaged and unopened original sealed packing.



Application

Dosage 0.6 - 2.5 % by weight of cement.
It is advisable to carry out trial mixes to establish the correct dosage rate required.

Dispensing Sikament® -163 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).

Important Notes Sikament® -163 is compatible with all types of Portland cement including SRC, may perform differently with variations in cement producers and cement chemical compositions.

Accidental overdosing of Sikament® -163 causes an extension of the initial setting time, however, no excessive amount of additional air will be entrained.

Safety Instructions

Safety Precautions Accidental splashes to the skin must be washed off with water and soap.
Accidental splashes to the eyes or mucous membrane must be rinsed with clean warm water. Seek medical attention.

Ecology Residues of material must be removed according to local regulations.
Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

Transport Non-hazardous

Toxicity Non-Toxic under relevant health and safety codes.

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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