

# PRODUCT DATA SHEET

## Sikament®-163 EX

### INITIAL SET AND WORKABILITY EXTENDING SUPERPLASTICISER AND HIGH RANGE WATER-REDUCING ADMIXTURE FOR CONCRETE

#### DESCRIPTION

Sikament®-163 EX is used as a highly effective water-reducing agent and superplasticiser for the production of high quality concrete in hot climates. The dual action of Sikament®-163 EX extends the workability and initial setting of high quality concrete whilst promoting later accelerated hardening and high early and ultimate strengths.

#### USES

As a superplasticiser, Sikament®-163 EX is used to produce high workability concrete for:

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

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

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

#### CHARACTERISTICS / ADVANTAGES

- Substantial improvement in workability without increased water
- Initial set and workability extension in hot climates
- 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
- Increased resistant to wear and abrasion

#### PRODUCT INFORMATION

<b>Packaging</b>	<ul style="list-style-type: none"> <li>▪ 200 L drum</li> <li>▪ 1 000 L tank (returnable)</li> </ul>
<b>Appearance / Colour</b>	Dark brown liquid
<b>Shelf Life</b>	12 months from the date of production
<b>Storage Conditions</b>	Store in undamaged and unopened, original sealed containers. Keep away from direct sunlight.

## APPLICATION INFORMATION

### Recommended Dosage

Sikament®-163 EX is dosed at the recommended rate of 0.6–1.6 % by weight of total cement.

It is advisable to carry out trial mixes to establish the required dosage. Sikament®-163 EX is compatible with all types of Portland cement including Sulphate Resistant Cement (SRC) and also for use with cement blends containing microsilica, slag, etc. For more specific requirements, advice is available from our Technical Department.

## APPLICATION INSTRUCTIONS

### DISPENSING

Sikament®-163 EX is added to the gauging water prior to its addition to the dry mix or separately to the freshly mixed concrete at the batching plant or on site into the truck mixer. Automatic and accurate dispensing equipment is available from Sika®.

Accidental overdosing of Sikament®-163 EX causes an extension of the initial setting time however no excessive amount of additional air will be entrained. Accidental underdosing will result in reduced workability and normal cement setting times.

### 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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

### ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## 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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