

# PRODUCT DATA SHEET

## Sikament<sup>®</sup>-163M

SIKAMENT<sup>®</sup> -163M IS USED AS A HIGHLY EFFECTIVE WATER-REDUCING AGENT AND SUPER-PLASTICIZER FOR THE PRODUCTION OF HIGH QUALITY CONCRETE IN HOT CLIMATES. THE DUAL ACTION OF SIKAMENT<sup>®</sup> -163M PROMOTES ACCELERATED HARDENING WITH HIGH EARLY AND

### DESCRIPTION

Sikament<sup>®</sup> -163M is used as a highly effective water-reducing agent and super-plasticizer for the production of high quality concrete in hot climates. The dual action of Sikament<sup>®</sup> -163M promotes accelerated hardening with high early and ultimate strengths.

- It complies with ASTM C494 Type A&F and B.S. 5075 Part 3.

### USES

- As a substantial water-reducing agent, Sikament<sup>®</sup> -163M is used where high early and ultimate strength is required, such as:
  - Pre-stressed concrete surfaces.
  - Concrete elements manufactured in Pre-cast factories, where rapid demoulding and early load application is required.
  - Bridges and cantilever structures.
- As a super plasticizer, Sikament<sup>®</sup> -163M is used for flow concrete in:
  - Slabs and foundations.
  - Walls and columns.
  - Slender components with densely packed reinforcements.
  - Beams and ceilings

### CHARACTERISTICS / ADVANTAGES

- Sikament<sup>®</sup> -163M provides the following properties:
  - 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.

### APPROVALS / CERTIFICATES

## PRODUCT INFORMATION

<b>Composition</b>	Synthetic Type Dispersion
<b>Packaging</b>	5 and 20 kg pails 220 kg drums Bulk Tanks packing available upon request
<b>Appearance / Colour</b>	Brown liquid
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged and unopened original sealed packing.
<b>Storage conditions</b>	Store in dry conditions, protected from direct sunlight and frost.
<b>Density</b>	(at 20°C) 1.200 (ASTM C494)

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	0.6 – 2.5 % by weight of cement. It is advisable to carry out trial mixes to establish the exact dosage rate required.
<b>Compatibility</b>	<ul style="list-style-type: none"><li>▪ Sikament® -163M is compatible with all types of Portland cement including S.R.C.</li><li>▪ Accidental overdosing of Sikament® -163M causes an extension of the initial setting time, however, no excessive amount of additional air will be entrained.</li></ul>
<b>Dispensing</b>	Sikament® -163M 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).

## 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

### ▪ 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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