

# PRODUCT DATA SHEET

## Sikament<sup>®</sup>MIC

Multi-Purpose Highly Effective Water-Reducer and Set Retarding Concrete Admixture

### PRODUCT DESCRIPTION

Sikament<sup>®</sup>MIC is a chloride-free, highly effective Water-reducer and set-retarding concrete admixture that acts as a multi-purpose admixture in terms of enhanced water-reducing efficiency and improved set retarding effect for the production of free flowing concrete in hot climates. A substantial water reducing agent for promoting high, early and ultimate strengths.

### USES

Sikament<sup>®</sup> MIC provides the following properties:

- High water reducing effect – up to 33%
- Workability especially where difficult placing conditions are encountered and to obtain dense concrete.
- A set retarding agent to maintain workability and extend the time allowed for pouring and compacting particularly in hot weather. E.g. ready-mix concrete pumped concrete, slip-forming concrete etc...
- A Micro-Super-plasticizer for normal concrete B20; B25; B30 & B35.
- Decreases the concrete permeability.
- Extended setting time
- Used for: Slabs, foundations, walls, columns, piers, piles, slenders...

### CHARACTERISTICS / ADVANTAGES

- Increased setting times at elevated temperatures
- Long lasting control of slump loss.
- Reduced water without loss of workability.
- Improved workability without increased water content.
- Reduced shrinkage and creep. Improved surface finish.
- Increased strengths.
- Chloride free.

### TESTS

### APPROVAL / STANDARDS

ASTM C494 Type F & G.

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## PRODUCT DATA

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### FORM

### COLOR

Olive Brown

### PACKAGING

Bulks of 1200 Kg

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### STORAGE

### STORAGE CONDITIONS / SHELF-LIFE

12 months from date of production if stored properly in original unopened packaging in cool and dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight. Protect from humidity. Protect from Frost.

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### TECHNICAL DATA

### DENSITY

1.190 ±0.010 Kg/L

### PH

Around 10

### CHLORIDE CONTENT

Nil

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## System Information

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### APPLICATION DETAILS

### CONSUMPTION / DOSAGE

0.4%-3.0% by weight of cement

It is advisable to carry out trials mixes to establish the exact dosage.

### COMPATIBILITY

Sikament®MIC is compatible with all types of Portland cements including sulphate resistant cement. Also compatible with wide range of Sika® products including Air Entrained admixtures Sika® Aer, integral waterproof admixtures Sika® 1 and Sika®Plastocrete N and many other Sika® products.

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### APPLICATION INSTRUCTIONS

### DISPENSING

Sikament®MIC can be added to the mixing water prior to its addition to the aggregates or directly to the freshly mixed concrete (the plasticizing effect is more pronounced). The correct quantity of Sikament®MIC should measure by means of a recommended dispenser.

### CURING

Fresh concrete must be cured properly, especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol products as a curing agent or apply wet hessian.

### CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

**VALUE BASE**

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.

**HEALTH AND SAFETY INFORMATION**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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 practice, the differences in materials, substratum 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request

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