

PRODUCT DATA SHEET

Sikament®-9 MM

High Range Water-Reducing Concrete Admixture

DESCRIPTION

Sikament®-9 MM is used as highly effective water reducing agent and superplasticizer for the production of high strength concrete in hot climates.

USES

As a superplasticizer, Sikament®-9 MM is used for flowing concrete in :

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

As a substantial water reducing agent, Sikament®-9 MM is used where high early and ultimate strength is required, such as :

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

FEATURES

Sikament® -9 MM 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, by over 30%
- 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

CERTIFICATES AND TEST REPORTS

Complies with A.S.T.M. C-494 Type F

PRODUCT INFORMATION

Composition	Naphtalene Sulfonate
Packaging	1Lit pail / 5Lit pail / 20Lit pail / 200 Lit PE Drum / 1000 Lit IBC Tank
Appearance and colour	Brown Liquid
Shelf life	12 months from the date of production if stored properly in undamaged, original, sealed packaging.
Storage conditions	Dry, cool, shaded place
Density	1.167 - 1.187
pH-Value	5.5 - 7.5

TECHNICAL INFORMATION

Specific advice	Concrete shall be designed in accordance with ACI 211.1-89 standard recommended practice for selecting proportions for concrete and shall contain a superplasticizer which shall be Sikament® -9 MM as manufactured by Sika. It shall be used in strict accordance with the manufacturer's recommendations.
Concrete mix design	Sikament® -9 MM as an accelerator High Early Strength Concrete

APPLICATION INFORMATION

Recommended dosage	The dosage of Sikament®-9 MM is between 0.6 - 2.5% of the cement weight. It is advisable to carry out trial mixes to establish the exact dosage rate required. Sikament®-9 MM is compatible with all types of Portland cement, including S.R.C.
Dispensing	Sikament®-9 MM 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS OF USE

Accidental overdosing of Sikament® -9 MM causes an extension of the initial setting time, however, no excessive amount of additional air will be entrained.

ECOLOGY, HEALTH AND SAFETY

Ecology: Do not dispose into water

Transportation class: Non-hazardous

Waste disposal: According to local law

Important notes: Avoid contact with foodstuffs and utensils. Avoid prolonged skin contact. 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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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