

PRODUCT DATA SHEET

Sikament[®]-561 M

(Formerly MRheobuild 561 M)

High range, water reducing superplasticiser for rheoplastic concretes

DESCRIPTION

Sikament[®]-561 M is formulated from synthetic polymers specially designed to impart rheoplastic qualities to concrete.

A rheoplastic concrete is a fluid concrete with a slump of at least 200 mm, easily flowing, but at the same time free from segregation and having the same water / cement ratio as that of a low slump concrete (25 mm) without admixture.

Sikament[®]-561 M is chloride free.

USES

- Microsilica concrete
- Mass concrete pours
- Ready mixed concrete
- Long-distance transport
- Pumped concrete
- Casting in hot climates

PRODUCT INFORMATION

Packaging	Sikament [®] -561 M is available in 210 litre drums, 1000 litre IBCs or in bulk.
Shelf Life	Shelf life is 12 months from date of manufacture when stored in undamaged, unopened packaging.
Storage Conditions	Store under cover out of direct sunlight and protect from extremes of temperatures. The freezing point is -2°C; Sikament [®] -561 M can be reconstituted if stirred, after leaving to thaw. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage and disposal advice consult your local Sika South Africa (Pty) Ltd Technical Services Department.

CHARACTERISTICS / ADVANTAGES

Sikament[®]-561 M considerably improves the properties of fresh and hardened concrete.

- Reduced thermal peaks
- High workability for longer periods
- Lower pumping pressure
- Delayed setting with longer workability
- Higher ultimate strengths
- Reduced permeability
- Improved durability

APPROVALS / STANDARDS

ASTM C-494 Type B, D and G
BS 5075 Part 1 and 3

Appearance / Colour	Brownish liquid
Density	1.120 -1.190
Flash Point	None
pH-Value	6.0 – 8.0

TECHNICAL INFORMATION

Concreting Guidance	Sikament®-561 M ensures that rheoplastic concrete remains workable in excess 3 hours at 20°C. Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability.
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APPLICATION INFORMATION

Recommended Dosage	Sikament®-561 M is normally dispensed at a rate of: 0.6 to 1.2% by weight of binder , dependant on ambient conditions and requirements. For further information please consult your local Technical Services Department.
Dispensing	Sikament®-561 M is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the concrete after 50 to 70% of the mixing water has been added. The addition of Sikament®-561 M to dry aggregate or cement is not recommended. Automatic dispensers are available. It is strongly recommended that concrete should be properly cured particularly in hot and dry climates.

SYSTEM INFORMATION

Compatibility

Sikament®-561 M is compatible with all cements and most air-entraining agents meeting the ASTM standards. The addition of Sikament®-561 M and SikaControl-100 AER (air-entraining agent) to concrete is recommended where it is required to withstand freezing and thawing cycles.

Without the use of an air entraining agent the typical air content of the concrete is 1-2%, dependant on dosage

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.

ECOLOGY HEALTH AND SAFETY

Sikament®-561 M is not a fire or health hazard. Spillages should be washed down immediately with cold water. As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin, and foodstuffs (which can also be tainted with vapour until product is fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers and dispose of as per local regulations. For further information refer to the Safety Data Sheet (SDS).

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.

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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