

## PRODUCT DATA SHEET

# Sikament® RB 561

(formerly MasterRheobuild® 561)

A superplasticising admixture to produce low slump loss rheoplastic concrete

### DESCRIPTION

Sikament® RB 561 is a chloride free, ready-to-use, liquid admixture comprising of synthetic polymers specially designed to impart low slump rheoplastic qualities to concrete. Rheoplastic concrete is a fluid concrete with a slump value of at least 200mm, easily flowing but at the same time free from segregation and having the same water/cement ratio as that of a no-slump concrete without additive.

Sikament® RB 561 has been formulated to meet the requirements of ASTM C494 Type B, D and G. It is compatible with all cements meeting recognized international standards.

### USES

- mass-concrete
- ready-mixed concrete
- long distance transport
- pumped concrete
- hot weather concreting
- use with all cements and air-entraining admixtures approved under ASTM, AASHTO, CRD & BSI.

It has been used for:

- foundation rafts of nuclear power stations, turbo-generators, rolling mills, shipyards and high rise buildings
- transporting of concrete lasting more than one hour casting structures where concrete is pumped over a distance of more than 200metres or to a considerable height
- reinforced concrete and prestressed concrete structures in regions where temperatures normally exceed 40°C and relative humidity is low.

### FEATURES

- Very high workability - Short placement time. Saves time and labour.
- High water reduction - High impermeability and strength. Improves durability.
- Superior cohesion - No segregation even at high workability. Excellent concrete quality.
- Low shrinkage and creep - Better dimensional stability.

## PRODUCT INFORMATION

Composition	Naphthalene Sulphonate Based
Packaging	200L PE Drum/1000L IBC Tank
Shelf life	12 months if stored properly in original unopened packaging
Storage conditions	Stored in dry conditions, protected from direct sunlight
Appearance and colour	Brown, liquid
Density	1.18 - 1.22 g/ml at 25°C
pH-Value	8.0 - 10.0

## TECHNICAL INFORMATION

Concreting guidance	Sikament® RB 561 is introduced into the mixer together with water. The plasticizing effect or water reduction is higher if the admixture is added to the damp concrete after 80% of the water has been added. The addition of Sikament® RB 561 to dry aggregate or cement is not recommended, as it lowers the plasticizing effect or water reduction.
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## SYSTEM INFORMATION

Compatibility	Sikament® RB 561 is compatible with both water reducers and air entraining agents approved under ASTM specifications but it should be dispensed separately into the concrete mix. It should only be used with water reducers after specific testing at the proposed dose rates, as certain combinations of dosages can result in extended retardation.
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## APPLICATION INFORMATION

Recommended dosage	Sikament® RB 561 is normally dispensed at a rate of 0.7-1.2L per 100kg of cementitious. Other dosages may also be used depending on the specific working conditions.
Dispensing	The addition of Sikament® RB 561 to a dry mix is not recommended. Sikament® RB 561 can be dosed either at the batching plant or at the placing site. At the batching plant, introduce Sikament® RB 561 at the specified dosage directly into the mixer through a dispenser along with mixing water, when the concrete is thoroughly wetted (i.e. after adding at least 75% of the mixing water) and mix for at least 2 minutes. If added at the placing site, mix for at least 2 minutes after the addition.

## 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

Overdosing will result in increased workability and setting time of the Concrete, however, provided that curing is effective, ultimate concrete strength and properties will not be affected. Use an appropriate concrete mixer and do not mix by hand. Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

## ECOLOGY, HEALTH AND SAFETY

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

## 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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### PRODUCT DATA SHEET

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