

## PRODUCT DATA SHEET

# Sikament<sup>®</sup> RB 1100

(formerly MasterRheobuild<sup>®</sup> 1100)

High range water-reducing superplasticising admixture

## DESCRIPTION

Sikament<sup>®</sup> RB 1100 is a ready-to-use, high range water-reducing agent designed to produce high slump concrete. This is a ready to use liquid admixture with no added chloride and meets ASTM C494 requirements for type F admixtures.

## USES

Sikament<sup>®</sup> RB 1100 can be used as a superplasticizer for the production of:

- precast concrete
- all types of concrete mixes in which high early strength or high strength and very high flowability are essential
- ready-mixed concrete
- pumped concrete
- hot weather concreting

## CHARACTERISTICS / ADVANTAGES

Sikament<sup>®</sup> RB 1100 provides the following properties:

- **Very high workability** : Short placement time. Saves time and labour.
- **High water reduction** : High impermeability and strength. Improved durability.
- **Superior cohesion** : No segregation even at high workability. Excellent concrete quality.
- **High early strength** : Early demoulding. Shorter steam curing cycles.
- **Low shrinkage and creep** : Better dimensional stability

## PRODUCT INFORMATION

Chemical Base	sulphonated naphthalene
Packaging	205 liter Drum, 1000 liter Bulk
Shelf Life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging
Storage Conditions	Store in cool and dry conditions at temperatures between 5°C to 35°C, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.
Appearance / Colour	Dark brown liquid
Specific gravity	1.17 - 1.22

# APPLICATION INFORMATION

<b>Recommended Dosage</b>	Sikament® RB 1100 is normally used at a rate of 0.5 – 2.0 liters per 100 kg of cementitious material. Other dosages may also be used depending on the mix design of the concrete and ambient conditions. The actual dosage depends on the degree of water reduction or flow required.
<b>Dispensing</b>	Use Sikament® RB 1100 as supplied after thorough stirring, without any dilution. <b>Material condition</b> <b>Cement</b> : For optimum performance, always use fresh cement, since the reactivity of cement is reduced with ageing. <b>Aggregates</b> : Use of properly graded, good quality, coarse aggregates and sand helps to achieve higher impermeability and strength. Sikament® RB 1100 is a ready-to-use admixture to be added to the concrete as a separate component. Avoid adding the admixture to the dry aggregates. Sikament® RB 1100 can be dosed either at the batching plant or at the placing site. At the batching plant, introduce Sikament® RB 1100 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 3 minutes. If added at the placing site, mix for at least 3 minutes after the addition.
<b>Compatibility</b>	Sikament® RB 1100 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.

## 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.

## LIMITATIONS

Setting time is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete and climatic condition. Trial mixes should be made with job materials to determine the optimum dosage required for a specified setting time and a given strength requirement.

## ECOLOGY, HEALTH AND SAFETY

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

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## 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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