

## PRODUCT DATA SHEET

# Sikament® RB 1200

(formerly MasterRheobuild® 1200)

High range, water-reducing, superplasticising admixture for the production of Rheoplastic concrete

### DESCRIPTION

The basic components of Sikament® RB 1200 are synthetic polymers, which allow mixing water to be reduced considerably and concrete strength to be enhanced significantly, particularly at early ages. Sikament® RB 1200 is a chloride-free product.

### USES

- Production of rheoplastic self-compacting concrete
- Pre-cast concrete
- Low w/c ratio concrete
- For concrete to be placed in complicated formwork or with congested reinforcement

### FEATURES

Sikament® RB 1200 allows the production of very flowable concrete, with a low w/c ratio. Table 1 shows some typical examples of reductions in w/c ratio. Concrete with Sikament® RB 1200 shows strengths higher than concrete without admixture having the same workability. The increase in strength, especially evident at early ages, remains at later ages, both in air-cured and steam-cured processes. Initial and final sets do not change significantly with respect to concrete without admixture. Therefore, whenever longer transport and finishing times are needed, the use of retarding superplasticisers, such as Sikament® RB 850, is recommended.

Due to the reduction in the w/c ratio, all other properties of hardened concrete improve significantly, namely: lowered permeability, shrinkage and creep, increased workability and modulus of elasticity.

### CERTIFICATES AND TEST REPORTS

ASTM C494 Types A and F  
BS 5075 Part 1 and 3

### PRODUCT INFORMATION

<b>Packaging</b>	1000 lt. flow bins. Bulk supply in tanker trucks is available upon request
<b>Shelf life</b>	Up to 12 months if stored according to manufacturer's instructions in unopened containers.
<b>Storage conditions</b>	Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
<b>Appearance and colour</b>	Dark brown liquid

Density	1.190-1.260 at 25°C
pH-Value	6-11
Total chloride ion content	Nil to BS 5075

## APPLICATION INFORMATION

Recommended dosage	Sikament® RB 1200 is normally dispensed, depending on the desired plasticising or water-reducing effect, at a rate of 1.0-3.0ltr /100kg of cement Other dosages may be used, depending on the materials and conditions.
Dispensing	Sikament® RB 1200 is introduced into the mixer together with mixing water. The plasticising effect, or water reduction, is higher if the admixture is added to the concrete after 50-70% of the mixing water has been added. The addition of Sikament® RB 1200 to dry aggregate or cement is not recommended.
Compatibility	Sikament® RB 1200 is compatible with all cements and admixtures meeting ASTM standards. The use of Sikament® RB 1200 and SikaControl®-111 AER, air-entraining agent, is recommended whenever concrete is required to withstand freeze/thaw cycling.

## 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 OF USE

### EFFECTS OF OVER DOSAGE

A severe over-dosage of Sikament® RB 1200 will result in the following:

- Retardation of initial and final set
- Slight increase in air-entrainment
- Increase in workability

## 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.

## APPLICATION INSTRUCTIONS

### APPLICATION

Sikament® RB 1200 should be added to the mix with the gauging water. No extension to mixing time is necessary. Never add Sikament® RB 1200 to dry cement. Alternatively, when using Sikament® RB 1200 to produce flowing concrete at site using ready-mix trucks, it can be added to the concrete via the feed hopper at the rear of the truck. Mix before discharge for 3 minutes at 10 rpm to produce a fully homogenous mix.

When using Sikament® RB 1200 to obtain very high early strengths, advantage must be taken of its water-reducing properties.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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