

PRODUCT DATA SHEET

Sikament[®] RB 1000

(formerly MasterRheobuild[®] 1000)

A SUPERPLASTICISING ADMIXTURE TO PRODUCE RHEOPLASTIC CONCRETE

DESCRIPTION

Sikament[®] RB 1000 is a superplasticising admixture that contains a sulphonated polymer. It is chloride free and is specially formulated to impart rheoplastic qualities to concrete.

Rheoplastic concrete is a fluid concrete with a slump value of at least 200mm or higher that flows easily but at the same time is free from segregation and has the same water/cement ratio as that of a no-slump concrete without additive.

Sikament[®] RB 1000 has been formulated to meet the requirements of ASTM C494 for Type A & F & BS 5075 admixtures.

Sikament[®] RB 1000 is compatible with all cements meeting recognised international standards

USES

- All types of concrete mixes in which high strength and very high flowability are essential
- Precast concrete
- Cold weather concreting

PRODUCT INFORMATION

Packaging

- 205 L drum
- Bulk delivery

Shelf Life

12 months

Storage Conditions

Stored above freezing temperatures. If Sikament[®] RB 1000 freezes, thaw at 45 °F (7 °C) or above and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation.

CHARACTERISTICS / ADVANTAGES

- 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

Compressive strength: Sikament[®] RB 1000 improves compressive strengths at all ages considerably compared to plain concrete with the same workability.

APPLICATION INFORMATION

Dispensing	Use Sikament® RB 1000 as supplied after thorough stirring, without any dilution. The addition of Sikament® RB 1000 to a dry mix is not recommended. Sikament® RB 1000 provides optimal benefits when all materials have been batched and mixed.
Consumption	Dosage depends upon the mix design, the ambient conditions and the degree of water reduction and workability required. Typical dosage used is 0.7- 1.2L per 100kg of cementitious materials. Site trials are recommended to fix the dosage.
Compatibility	Cement: For optimum performance, always use fresh cement since the reactivity of cement is reduced with ageing. Aggregates: Use of properly graded, good quality, coarse aggregates and sand helps to achieve higher impermeability and strength.

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

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.

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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