BUILDING TRUST

PRODUCT DATA SHEET

Sikament® RB 2000 M

(formerly MRheobuild 2000M)

A HIGH RANGE MELAMINE BASED SUPERPLASTICISER

DESCRIPTION

Sikament® RB 2000 M is a chloride free, admixture based on melamine formaldehyde, formulated for the production of rheoplastic concrete. Sikament® RB 2000 M available as a liquid form which can used for the production of rheoplastic concrete. A rheoplastic concrete is a fluid, but cohesive mix with a slump value of at least 200 mm. It is virtually self compacting, but at the same time free from segregation and with a water/cement ratio as a noslump concrete with an admixture. Sikament® RB 2000 M is suitable for use in hot and tropical climatic conditions.

USES

- Production of rheoplastic concrete
- Production of high early strength concrete
- Precast concrete
- Concrete with white cement

FEATURES

- Translucent color enables use with white cement concrete
- Enables production of highly impermeable, dense concrete with enhanced durability
- Enables higher strength and high workability concrete with normal cement contents
- Enables earlier demoulding of precast units
- Can be used to produce self compacting flowing concrete which requires little to no vibration

CERTIFICATES AND TEST REPORTS

Sikament® RB 2000 M follows the requirements of ASTM C494-92; Type A ,C.E& F and BS 5075: Part 1

PRODUCT INFORMATION

Composition	Melamine formaldehyde	
Packaging	210 L drum, 1000 L flowbin or bulk supply in tanker	
Appearance and colour	Clear to turbid liquid	
Shelf life	12 months from date of production if stored properly	
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight. Mix well before use.	
Density	~1.1 kg/l (+25 °C)	
Total chloride ion content	Nil	(BS EN 934-2)

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using Sikament® RB 2000 M in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian.

APPLICATION INFORMATION

Recommended dosage	Sikament® RB 2000 M is normally dispensed at a rate of 0.5 – 3.0 litres per 100 kg of total binder. Other dosages may be used, depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	Sikament® RB 2000 M is suitable for mixes containing all types of cement and supplementary cementitious materials such as: Microsilica (Silica Fume), Fly Ash (PFA), GGBS (ground granulated blast furnace slag) and the following Sika products: ▪ SikaPump® ▪ Sika®FerroGard® ▪ SikaFume® ▪ SikaFiber® ▪ Sika® Aer ▪ Sika® Stabilizer ▪ SikaControl® We recommend to perform trial mixes to establish the required performance when combining Sikament® RB 2000 M with the above products or other admixtures. Sikament® RB 2000 M should not be premixed with any other admixtures. If other admixtures are to be used, those should be dispensed separately. Please consult our Sika Technical Department for further assistance.
Dispensing	Sikament® RB 2000 M is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if Sikament® RB 2000 M is poured into the concrete mix right after the addition of the first 80 % of the mixing water, i.e. when all solids are wetted. Avoid adding the admixture to the dry aggregates.

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.

IMPORTANT CONSIDERATIONS

Before pouring, suitability tests on the fresh concrete must be carried out. With high workability mixes take special care that all formwork is properly installed and secured. If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing. When using Sikament® RB 2000 M, a suitable concrete mix must be designed for the local material sources and trial mixes performed to verify suitability. When accidental overdosing occurs the set retarding effect and workability increases along with bleeding. Additional air may also be entrained. During this period the concrete must be kept moist in order to prevent premature drying out.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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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