

PRODUCT DATA SHEET

Sikament[®] RB 1005

(formerly MasterRheobuild[®] 1005)

Superplasticising admixture for producing rheoplastic concrete

DESCRIPTION

Sikament[®] RB 1005 is a ready to use, liquid admixture designed to superplasticising admixture for produce high slump concrete but low water/cement ratio. Sikament[®] RB 1005 is a chloride free and is specially formulated to impart rheoplastic qualities to concrete. Rheoplastic concrete is typically fluid concrete with a slump value of ≥ 200 mm that flows easily but at the same time is free from segregation.

USES

- All types of concrete mixes where high strength and workability are required
- Pre-cast concrete
- Ready-mixed concrete
- Pumped concrete

FEATURES

- **High workability** for shorter placement time. Saves time and labour
- **High water reduction** to produce high impermeability and strength leading to improves durability
- **Superior cohesion** with no segregation even at high workability. Excellent concrete quality
- **High early strength** for early de-moulding
- **Low shrinkage and creep** for better dimensional stability

CERTIFICATES AND TEST REPORTS

Complies with ASTM C 494 Type A and F

PRODUCT INFORMATION

Composition	Modified naphthalene sulfonate
Packaging	200 L / drum, 1,000 L / tote
Shelf life	12 months from the date of production If stored properly in undamaged, original, sealed packaging
Storage conditions	Store in dry conditions, protected from direct sunlight at temperature between 5°C and 40°C
Appearance and colour	Brown Liquid
Density	1.240 - 1.280 KG/L @ 25°C
pH-Value	6.0 - 9.0 @ 25°C

APPLICATION INFORMATION

Recommended dosage	Dosage of Sikament® RB 1005 depends upon the mix design, the ambient conditions and the degree of water reduction and workability required. Typical dosage used is 0.8 – 2.5 litres per 100 kg of cementitious materials. Other dosages may also be used depending on the mix design and ambient conditions. Therefore, in many cases it is advisable to carry out trial mixes.
Dispensing	The addition of Sikament® RB 1005 into a dry mix is not recommended. Sikament® RB 1005 can be dosed either at the batching plant or on-site. Introduce Sikament® RB 1005 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. For on-site dosing, mix for at least 2 minutes after the addition.
Compatibility	Sikament® RB 1005 may be combined with many other Sika products. Trials must always be carried out before combining products in specific mixes. Contact Sika Technical Services for additional information and any specific combinations. Sikament® RB 1005 is compatible with all types of Portland Cement, including SRC type and Hydraulic Cement.

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 Material Safety Data Sheet 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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