

**BUILDING TRUST** 

## PRODUCT DATA SHEET

# Sikament<sup>®</sup> RB 600 S

(formerly MRheobuild 600S)

## SUPERPLASTICIZER FOR USE WITH CONVENTIONAL AND MICROSILICA CONCRETE

## DESCRIPTION

Sikament<sup>®</sup> RB 600 S is a super plasticizing admixture for use with all types of concrete and concrete containing microsilica, fly ash, Ground Granulated Blast Furnace Slag (GGBS) and other reactive binders. Sikament<sup>®</sup> RB 600 S possesses the ability to retain workability for extended periods even in high temperatures. Suitable for use in hot and tropical climatic conditions

#### USES

Sikament<sup>®</sup> RB 600 S can be used as a superplasticizer for the production of free flowing concrete for:

- Production of microsilica concrete
- Production of low permeability and high strength concrete
- Production of rheoplastic concrete

**PRODUCT INFORMATION** 

- Low water / cement ratio concrete
- Hot weather concreting

## **FEATURES**

- Enables rheoplastic, workable microsilica concrete
- Increases durability and impermeability
- Provides cost savings by reducing cement content, without loss of strength
- Reduces segregation by improved cement dispersion
- Chloride free, suitable for use with reinforced, precast, prestressed concrete
- High early strengths when used as a water reducer
- Major increase in strength at early and all ages without increasing the cement content
- Maintains workability over wide temperature ranges

## **CERTIFICATES AND TEST REPORTS**

Sikament<sup>®</sup> RB 600 S follows the requirements of ASTM C494; Type A , F & G depending on dosage. Meets the requirements of BS EN 934-2.

Composition	Sulphonated napthalene	
Packaging	210 L drum, 1000 L flowbin or bulk supply in tanker	
Appearance and colour	Dark brown liquid	
Shelf life	12 months from date of production when stored properly	
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry condi?tions at temperatures between +5°C and +45°C. Protect from direct sunlight. Mix well before use.	
Density	~1.13 kg/l (+25°C)	
Total chloride ion content	Nil	(BS EN 934-2)

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#### **TECHNICAL INFORMATION**

Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using Sikament® RB 600 S 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 hess	
APPLICATION INFORM	ATION	
Recommended dosage	Sikament <sup>®</sup> RB 600 S is normally dispensed at a rate of 0.6 – 1.3 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	<ul> <li>Sikament<sup>®</sup> RB 600 S 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: <ul> <li>SikaPump<sup>®</sup></li> <li>SikaPump<sup>®</sup></li> <li>Sika<sup>®</sup> FerroGard<sup>®</sup></li> <li>SikaFiber<sup>®</sup></li> <li>SikaFiber<sup>®</sup></li> <li>Sika<sup>®</sup> Aer</li> <li>Sika<sup>®</sup> Stabilizer</li> <li>SikaControl<sup>®</sup></li> </ul> </li> <li>We recommend to perform trial mixes to establish the required performance when combining Sikament<sup>®</sup> RB 600 S with the above products or other admixtures. Please consult Sika Technical Department for further assistance.</li> </ul>	
Dispensing	Sikament <sup>®</sup> RB 600 S should be added to the concrete mix during the mixing cycle at the same time as the water. Never add Sikament <sup>®</sup> RB 600 S to dry cement or dry microsilica. Alternatively, Sikament <sup>®</sup> RB 600 S can be added via the feed hopper of a concrete truck mixer to produce flowing concrete on site as a means of slump control at high ambient temperatures (ensure at least 30 revolutions of the mixer drum when adding on site).	

## **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<sup>®</sup> RB 600 S 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.

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## **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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All products are supplied under a management system certified LC to conform to the requirements of the quality, enricomental and occupational health & safety standards ISO 9001, ISO abiLC 14001 and ISO 45001.

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