BUILDING TRUST

PRODUCT DATA SHEET

Sikament® RB 623

Retarding Superplasticizing admixture for concrete

DESCRIPTION

Sikament® RB 623 is composed of synthetic polymers specially designed to impart Rheoplastic qualities to concrete.

USES

- Ready mixed concrete
- Long hauls
- Pumped concrete
- Concrete containing Granulated Slag/Pozzolans
- Mass concrete pours
- Hot weather concreting

FEATURES

- Reduced thermal peaks
- High workability for longer periods
- Lower pumping pressure
- Resistance to segregation even at high workability
- Extended setting with longer workability
- Reduced water content for a given workability
- Higher ultimate strengths
- Reduced permeability
- Improved durability
- Reduced shrinkage and creep
- Increased ease in finishing concrete
- Provides lower in-place cost

CERTIFICATES AND TEST REPORTS

Sikament® RB 623 follows the requirements of ASTM C494 Type B & D, EN 934-2: T11.1/11.2 and IS 9103

PRODUCT INFORMATION

Packaging	Sikament® RB 623 is supplied in 230 Kg, 1000 Kg or bulk on request.
Appearance and colour	Dark brown 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 +50°C. Mix well before using.
Density	~1.22 kg/l at 25º C
pH-Value	≥ 6
Total chloride ion content	Nil

APPLICATION INFORMATION

Recommended dosage

Optimum dosage of Sikament® RB 623 should be determined with trial mixes. As a guide, a dosage range of 400ml to 1200ml per 100kg of cementitious material is recommended as a starting point. In high performance concrete a dosage upto 1800ml per 100kg of cementitious material can be added subject to prior site trials.Because of variations in concrete materials, job site conditions, and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local Sika representative.
For additional information on Sikament® RB 623 admixture or on its use in developing concrete mixes with special performance characteristics, contact your local Sika representative.

Effects of over dosage

A severe over-dosage of Sikament® RB 623 can result in the following:
- Long extension of initial and final set
- Increase in air entrainment
- Bleed/segregation of mix, quick loss of workability
- Increased plastic shrinkage

A slight overdose may not adversely affect the ultimate strength of the concrete and can achieve higher strengths than normal concrete, provided it is properly compacted and cured. Due allowance should be made for the effect of fluid concrete pressure on form work, and stripping times should be monitored.
In the event of over dosage, consult your local Sika representative immediately.

Dispensing

Sikament® RB 623 is a ready-to-use liquid which is dispensed into the concrete together with the mixing water.
The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of Sikament® RB 623 to dry aggregate or cement is not recommended.
When using Sikament® RB 623 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 5 minutes at 10 rpm to produce a fully homogenous mix.

SYSTEM INFORMATION

Compatibility

Sikament® RB 623 is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers. Sikament® RB 623 is also compatible with slag and pozzolans such as fly ash, metakaolin and silica fume.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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.

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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