

PRODUCT DATA SHEET

Sikament® RB 870

(formerly MasterRheobuild® 870)

HIGH RANGE, WATER-REDUCING SUPERPLASTICISER FOR RHEOPLASTIC CONCRETES

DESCRIPTION

Sikament® RB 870 is formulated from synthetic polymers specially designed to impart rheoplastic qualities to concrete.

A rheoplastic concrete is a fluid concrete, easily flowing, but at the same time free from segregation and bleeding having the same w/c ratio as that of a low slump concrete without admixture with a slight set retarding effect for producing free-flowing concrete in hot climates. Also, it provides a substantial water reduction effect for promoting high, early and ultimate strengths.

Sikament® RB 870 is chloride-free.

USES

Sikament® RB 870 considerably improves the properties of fresh and hardened concrete.

- Microsilica concrete
- Mass concrete pours
- Ready-mixed concrete
- Long-distance transport
- Pumped concrete
- Casting in hot climates

PRODUCT INFORMATION

Packaging	1000 lt. flow bins. Bulk supply in tanker trucks is available upon request
Shelf life	Up to 12 months if stored according to manufacturer's instructions in unopened containers.
Storage conditions	Sikament® RB 870 must be stored where temperatures do not drop below +5°C. If product has frozen, thaw and agitate until completely reconstituted. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

FEATURES

- Reduced thermal peaks
- High workability for longer periods
- Lower pumping pressure
- Delayed setting with longer workability
- Higher ultimate strengths
- Reduced permeability
- Improved durability

CERTIFICATES AND TEST REPORTS

ASTM C 494 Type D and G BS 5075 Part 3

Appearance and colour	Dark brown liquid
Density	(1.180 - 1.210) at 25° C
pH-Value	5-7
Total chloride ion content	Nil to BS 5075

APPLICATION INFORMATION

Recommended dosage	Optimum dosage of Sikament® RB 870 should be determined in trial mixes. As a guide the following dosages are recommended as a starting point for any trial: In normal concrete a dosage of between 0.5-1.7 lit. /100kg of cement.
Dispensing	Sikament® RB 870 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 concrete after 50 to 70% of the mixing water has been added. The addition of Sikament® RB 870 to dry aggregate or cement is not recommended. Automatic dispensers are available.
Compatibility	Sikament® RB 870 is compatible with all cements and most air-entraining agents meeting the ASTM standards. The addition of Sikament® RB 870 and SikaControl®-111 AER (air-entraining agent) to concrete is recommended where it is required to withstand freezing and thawing cycles.

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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