

PRODUCT DATA SHEET

Sikament® RB 859

(formerly MasterRheobuild® 859)

High range, water-reducing superplasticiser for concretes containing GGBS and microsilica

DESCRIPTION

Sikament® RB 859 is formulated from synthetic polymers specially designed to impart rheoplastic qualities to concrete, particularly those containing GGBS and microsilica.

A rheoplastic concrete is a fluid concrete with a slump of at least 200mm, easily flowing, but at the same time free from segregation and having the same w/c ratio as that of a low slump concrete (25mm) without admixture.

Sikament® RB 859 is chloride-free.

USES

Sikament® RB 859 considerably improves the properties of fresh and hardened concrete.

- Mixes containing GGBS or microsilica
- Mass concrete pours
- Ready-mixed concrete
- 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 859 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.
Appearance and colour	Brown liquid
Density	1.210 -1.250 kg/l at 25°C
pH-Value	6-11

FEATURES

- 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 A, B, D, F and G

APPLICATION INFORMATION

Recommended dosage	Optimum dosage of Sikament® RB 859 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 0.8% and 2%; in high performance low w/c ratio concrete, a dosage of between 1.5 and 3.5%. Dependent upon mix requirement, it is possible to use a higher dosage of Sikament® RB 859 without causing any adverse effects upon the concrete.
Dispensing	Sikament® RB 859 is a ready-to-use liquid, which is dispensed into the concrete together with mixing water. The plasticising effect and water reduction are higher if the admixture is added to the concrete after 50-70% of the mixing water has been added. The addition of Sikament® RB 859 to dry aggregate or cement is not recommended. Automatic dispensers are available.
Compatibility	Sikament® RB 859 has been specifically developed for use in concretes modified with ground granulated, blast furnace slag, but is compatible with all cement types.

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.

Sika Egypt

1st Industrial Zone (A)
Section #10, Block 13035
El Obour City, Egypt
TEL: +202 44810580
FAX: +202 44810459
egy.sika.com



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