

PRODUCT DATA SHEET

Sikament® RB 850 PK

(formerly MasterRheobuild® 850PK)

High range, water reducing superplasticiser for rheoplastic concretes

DESCRIPTION

Sikament® RB 850 PK is formulated from synthetic polymers specially designed to impart rheoplastic qualities to concrete.

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 water/cement ratio as that of a low slump concrete (25mm) without admixture. Sikament® RB 850 PK is chloride free.

USES

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

To obtain

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

CHARACTERISTICS / ADVANTAGES

Sikament® RB 850 PK considerably improves the properties of fresh and hardened concrete.

APPROVALS / STANDARDS

- EN 934-2 Tables 3.1, 3.2, 11.1 and 11.2
- ASTM C-494 Type A, B, D, F, and G

PRODUCT INFORMATION

Packaging	Sikament® RB 850 PK is available in bulk or in 250 kg drums.
Shelf Life	12 months minimum from the date of production.
Storage Conditions	Sikament® RB 850 PK 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.
Appearance / Colour	Brownish Liquid
Specific gravity	1.190 – 1.250 at 25°C
pH-Value	6.0 - 9.0
Total Chloride Ion Content	Chloride-free to EN934-2

APPLICATION INFORMATION

Recommended Dosage	Optimum dosage of Sikament® RB 850 PK 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 0.8-2.0 litre / 100kg total cementitious material. In high performance micro silica concrete a dosage of between 1.5-3.0 litre / 100kg total cementitious material. Dependant upon mix requirement, it is possible to use a higher dosage of Sikament® RB 850 PK without causing any adverse effects upon the concrete.
Dispensing	Sikament® RB 850 PK 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 850 PK to dry aggregate or cement is not recommended.
Compatibility	Sikament® RB 850 PK is compatible with all cements and most air entraining agents meeting the ASTM standards. The addition of Sikament® RB 850 PK and 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.

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. 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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