

## PRODUCT DATA SHEET

## Sikament® RB 918

## Retarding Superplasticising Admixture for Concrete

## DESCRIPTION

Sikament® RB 918 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

## CHARACTERISTICS / ADVANTAGES

- 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

## APPROVALS / STANDARDS

- ASTM C-494 Type B, D & G
- EN 934-2: T11.1/11.2
- IS 9103

## PRODUCT INFORMATION

|                            |                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging                  | 05 ltr jerry can<br>20 ltr plastic can<br>235 ltr drum<br>1000 ltr IBC<br>Bulk supply in tanker is possible on demand                                                                    |
| Appearance / Colour        | Dark Brown Free Flowing Liquid                                                                                                                                                           |
| Shelf Life                 | 12 months from date of production if stored in unopened, undamaged and original sealed packaging.                                                                                        |
| Storage Conditions         | The product must be stored properly in undamaged, unopened original sealed packaging in dry conditions at temperatures between +5° C and +35° C. Protect from direct sunlight and frost. |
| pH-Value                   | ≥ 6                                                                                                                                                                                      |
| Total Chloride Ion Content | ≤ 0.2% (EN 934-2)                                                                                                                                                                        |
| Specific gravity           | 1.2 ± 0.03                                                                                                                                                                               |

## APPLICATION INFORMATION

### Recommended Dosage

Optimum dosage of Sikament® RB 918 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 up to 1800ml per 100kg of cementitious material can be added subject to prior site trials.

Effects of Over Dosage:

A severe over-dosage of Sikament® RB 918 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 overdosing 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.

### Compatibility

Sikament® RB 918 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 918 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.

## FURTHER DOCUMENTS

Sikament® RB 918 ensures that rheoplastic concrete remains workable in excess of 2 hours at +25°C. Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability.

It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates.

## 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.

## APPLICATION

Sikament® RB 918 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 918 to dry aggregate or cement is not recommended. Automatic dispensers are available.

## 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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