

PRODUCT DATA SHEET

Sikament[®]-701 RB ES (MM)

A superplasticising admixture to produce Rheoplastic concrete

DESCRIPTION

Sikament[®]-701 RB ES (MM) is a superplasticising admixture that contains a sulphonated polymer. It is chloride free and is specially formulated to impart rheoplastic qualities to concrete.

Rheoplastic concrete is a fluid concrete with a slump value of at least 200mm or higher that flows easily but at the same time is free from segregation and has the same water/cement ratio as that of a no-slump concrete without additive.

Sikament[®]-701 RB ES (MM) has been formulated to meet the requirements of ASTM C494 for Type A & F. Sikament[®]-701 RB ES (MM) is compatible with all cements meeting recognised international standards.

USES

Sikament[®]-701 RB ES (MM) is used for:

- all types of concrete mixes in which high strength and very high flowability are essential.
- precast concrete.
- cold weather concreting.

PRODUCT INFORMATION

Packaging	200 l/ PE drum 1,000 l/ IBC Tank
Shelf life	12 months if stored properly in original unopened packaging
Storage conditions	Stored in dry conditions, protected from direct sunlight
Colour	Dark Brown
Density	1.12~1.15
pH-Value	8.0 ~ 11.0

FEATURES

- Very high workability - Short placement time. Saves time and labour.
- High water reduction - High impermeability and strength. Improved durability.
- Superior cohesion - No segregation even at high workability. Excellent concrete quality.
- High early strength - Early demoulding. Shorter steam curing cycles.
- Low shrinkage and creep - Better dimensional stability.
- Reinforced concrete and prestressed concrete structures in regions where temperatures normally exceed 40°C and relative humidity is low.

APPLICATION INFORMATION

Recommended dosage	Dosage depends upon the mix design, the ambient conditions and the degree of water reduction and workability required. Typical dosage used is 0.80-2.00 litre per 100kg of cementitious materials. Site trials are recommended to fix the dosage.
Dispensing	The additional of Sikament®-701 RB ES (MM) to a dry mix is not recommended. Sikament®-701 RB ES (MM) can be dosed either at the batching plant or at the placing site. At the batching plant, introduce Sikament®-701 RB ES (MM) at the specified dosage directly into the mixer through a dispenser along with mixing water, when the concrete is thoroughly wetted (i.e. after adding at least 75% of the mixing water) and mix for at least 2 minutes. If added at the placing site, mix for at least 2 minutes after the addition.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER INFORMATION

Overdosing will result in increased workability and setting time of the Concrete, however, provided that curing is effective, ultimate concrete strength and properties will not be affected, Accurate dispensing equipment can be supplied by Sika Myanmar Limited, Use an appropriate concrete mixer and do not mix by hand, Trial mixes are recommended to establish exact dosage rates required to suit individual requirements, Please contact Sika Technical Department for further assistance.

ECOLOGY, HEALTH AND SAFETY

Protective Measures: Avoid prolonged contact with skin, Wash off thoroughly with soap water. In case of contact with eyes or mouth, rinse immediately with clean warm water and seek medical attention without delay. Avoid contact with food stuff and utensils.

Ecology/ Waste disposal: Do not dispose of into water or soil, but according to local regulations.

Transportationclass: Non-hazardous

Toxicity: Non-toxic

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.

SIKA (MYANMAR) LIMITED

No.31, Mahabandula Street, South

Dagon

Kyansittar Yeik Mon Industrial Zone,

Yangon, Myanmar.

Phone: +959 798366081, +951 657970-2

E-mail: myanmar.sales@mm.sika.com



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