BUILDING TRUST

PRODUCT DATA SHEET

Sikament® RB 856 KE

High range water reducing and slump retaining concrete admixture

DESCRIPTION

Sikament® RB 856 KE is a highly effective dual action liquid superplasticiser that imparts excellent slump retention for prolonged periods. Suitable for use in hot and tropical climatic conditions.

USES

Sikament® RB 856 KE can be used as a superplasticizer for the production of free flowing concrete for:

- Slabs
- Foundations
- Walls
- Columns
- Piers
- Piles
- Slender components with dense reinforcement

CHARACTERISTICS / ADVANTAGES

Sikament® RB 856 KE provides the following properties:

As a Superplasticiser:

- Workability is greatly improved
- Concrete is placed easily
- Especially suitable for slender components with densely packed reinforcement
- Concrete requires less vibrating
- Improved cohesion of the concrete mix significantly reduces the risk of segregation and allows greater time for placement

As a Water Reducer:

- Excellent water reduction capability
- Final strength improvement

APPROVALS / CERTIFICATES

Sikament® RB 856 KE follows the requirements of ASTM C494; Type G and EN 934-2

PRODUCT INFORMATION

Composition	Based on naphthalene formaldehyde sulphonate
Packaging	▪ 5 Litres, 25 Litres, 200 Litres, and 1000 Litres ▪ Bulk deliveries upon request
Appearance / Colour	Dark brown liquid
Shelf life	12 months minimum from production date if stored in undamaged and unopened, original sealed packaging, in dry conditions at temperatures between +5 and +35 ºC. Protect from direct sunlight
Storage conditions	Store in a dry area between 5ºC and 35ºC. Protect from direct sunlight.
Density	~1.22 kg/l (+25 °C)
Total chloride ion content	< 0.1% (EN934-2).

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using Sikament® RB 856 KE in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent.

APPLICATION INFORMATION

Recommended dosage	0.8 - 2.0 % by weight of binder. Other dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	Sikament® RB 856 KE is suitable for mixes containing all types of cement and supplementary cementitious materials such as: Microsilica (Silica Fume), Fly Ash (PFA), GGBS (ground granulated blast furnace slag) and the following Sika products: Sika® FerroGard®, SikaFiber®, Sika® Aer, Sika® Stabilizer, SikaControl®. We recommend to perform trial mixes to establish the required performance when combining Sikament® RB 856 KE with the above products or other admixtures. Please consult our Sika Technical Department.
Dispensing	Sikament® RB 856 KE is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if Sikament® RB 856 KE is poured into the concrete mix right after the addition of the first 80 % of the mixing water, i.e. when all solids are wetted. Avoid adding the admixture to the dry aggregates.

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.

IMPORTANT CONSIDERATIONS

- Before pouring, suitability tests on the fresh concrete must be carried out. With high workability mixes take special care that all formwork is properly installed and secured.
- If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing.
- When using Sikament® RB 856 KE a suitable concrete mix must be designed for the local material sources and trial mixes performed to verify suitability.
- When accidental overdosing occurs the set retarding effect and workability increases.
- Additional air may also be entrained. During this period the concrete must be kept moist in order to prevent premature drying out.

Sika Kenya Limited
Josh Industrial Estate
P.O Box 38645 · 00623 Nairobi · Kenya
Mobile: +254 711 140234 / +254 786 140234
Web: ken.sika.com

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