

PRODUCT DATA SHEET

Sikament[®]-850 SA

High range superplasticising admixture for the production of rheoplastic concrete

DESCRIPTION

Sikament[®]-850 SA is a high range, chloride free, water reducing superplasticiser with effective dual action, used for high workability concrete as well as a substantial water reducer. Suitable for use in hot and tropical climatic conditions.

USES

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

PRODUCT INFORMATION

Composition	Sulphonated naphthalene
Packaging	1000 L flowbins and Bulk supply in trucks.
Appearance and colour	Dark brown liquid.
Shelf life	Up to 12 months if stored according to manufacturer's instructions in unopened containers.
Storage conditions	Sikament [®] -850 SA 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.
Density	~1.20 kg/l (+25)
Total chloride ion content	Nil (BS 5075 Part 1)

FEATURES

Sikament[®]-850 SA allows the production of a flowable concrete, with low water / cement ratio. Concrete with Sikament[®] RB 1400 HB shows strengths higher than concrete without admixture having the same workability. Due to the reduction in the water / cement ratio, all other properties of hardened concrete improve significantly, namely; lowered permeability, shrinkage and creep, increased workability and modulus of elasticity.

CERTIFICATES AND TEST REPORTS

ASTM C-494 Type A ,F and G BS EN 934-2

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice for production and placing must be observed when using Sikament®-850 SA 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 or apply wet hessian.

APPLICATION INFORMATION

Recommended dosage

Optimum dosage of Sikament®-850 SA 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 0.5% and 2.5% of the total binder. Dependent upon mix requirement, it is possible to use a higher dosage of Sikament®-850 SA without causing any adverse effects upon the concrete.

Dispensing

Sikament®-850 SA 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®-850 SA to dry aggregate or cement is not recommended.

Compatibility

Sikament®-850 SA 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

A severe over-dosage of Sikament®-850 SA will result in the following:

- Retardation of initial and final set.
- Slight increase in air entrainment.
- Increase in workability.
- Bleeding

Providing it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete. Due allowance should be made for the effect of fluid concrete pressure on formwork, and stripping times should be monitored.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety related data.

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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.

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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



Sikament-850SA-en-AE-(03-2026)-1-1.pdf

Product Data Sheet
Sikament®-850 SA
March 2026, Version 01.01
021302011000263206

