BUILDING TRUST

PRODUCT DATA SHEET

Sikament®-320 ET

High range water reducer / Superplasticizer admixture for concrete

DESCRIPTION

A liquid concrete admixture designed to improve the workability and early strength properties of concrete. It acts as a superplasticizing and high-range water-reducing admixture, enabling the production of cohesive and workable concrete while maintaining the required strength and durability characteristics. The product is particularly suitable for normal concrete applications where reliable performance and economy are required.

USES

- Concrete requiring improved workability without increasing water content
- High quality concrete
- Concrete applications requiring earlier formwork removal
- Production of dense, durable concrete

FEATURES

As Superplasticizer
- Improved workability
- Improves concrete placement
- Especially suitable for slender components with congested reinforcement
- Improved compacting behaviour
- Improve concrete density and surface finish

As high range water-reducer
- Up to 15% of water reduction
- Enhances compressive strength through optimized water reduction

CERTIFICATES AND TEST REPORTS

Complies with ASTM C 494 type F / EN 934-2

PRODUCT INFORMATION

Composition	Naphthalene formaldehyde sulphonate
Packaging	▪ 5lit and 20lit Jerrycans ▪ 200lit Barrels ▪ 1,000lit IBC tankers
Appearance and colour	Dark brown liquid
Shelf life	Shelf life when stored in dry conditions is 12 months from the date of manufacture.
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10°C and +45°C. Always refer to packaging.
Density	1.14 ± 0.03
pH-Value	8 ± 1
Total chloride ion content	< 0.1% (EN 934-2)

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice, concerning production and placing must be followed. Laboratory trials must be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as early as possible.

APPLICATION INFORMATION

Recommended dosage	0.5 - 3% by weight of cement, depending on the requested performance of the concrete. It is advisable to carry out trial mixes to establish the exact dosage rate required.
Compatibility	Sikament®-320 ET may be combined with many other Sika products. Trials must always be carried out before combining products in specific mixes.
Dispensing	Sikament®-320 ET must be measured using suitable equipment then added to the batching gauging water or both added together at the same time into the batching plant concrete mixer. Sikament®-320 ET can also be added to the concrete immediately prior to discharge and after further mixing has taken place for at least three more minutes.

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.

LIMITATIONS OF USE

- We recommend previous tests to determine the correct dosage of the admixture and whenever concrete composition is changed.
- When accidental overdosing occurs, the set retarding effect increases. During this period the concrete must be kept moist in order to prevent premature drying out.

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 INSTRUCTIONS

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use.

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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