

PRODUCT DATA SHEET

Sikament®-1250

High performance superplasticizer (High fluidity agent)

DESCRIPTION

Sikament®-1250 is a third generation superplasticizer for concrete and mortar. It meets the requirements for high range water reducing superplasticizers according to CNS 12283 Type F & CNS 12833 Type II.

USES

Sikament®-1250 is a unique multi purpose superplasticizer that is particularly suitable for the production of ready mixed concrete and precast concrete, also it is suitable for job site use to increase workability. Additionally it provides high water reduction and improved flow characteristics. With its outstanding combination of workability time and early strength development Sikament®-1250 is used for the following:

- A wide range of applications where excellent workability and good early strength development are required
- Water reduction (up to 20 %)
- Concrete slump retaining (up to 90 minutes)
- High performance concretes
- Self Compacting Concrete (SCC)

CHARACTERISTICS / ADVANTAGES

Sikament®-1250 is a powerful superplasticizer based on advanced technology which gives the following advantages:

- High water reduction, resulting in high density, high strength and reduced permeability
- Extended workability in conjunction with subsequent fast strength development
- Superior plasticising effect, resulting in improved flow, placing and compaction characteristics
- Reduced shrinkage during curing and reduced creep when hardened

Provides many opportunities for cost improvement e.g.:

- Cement reduction
- More economic mix design
- Reduced energy costs for steam cured precast elements

Sikament®-1250 does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

APPROVALS / STANDARDS

- Conforms to the requirements of CNS 12283 Type F & CNS 12833 Type II.

PRODUCT INFORMATION

Chemical Base	Modified polycarboxylate in water.
Packaging	1000 liters IBC's or tanker delivery on request.
Appearance / Colour	Yellowish or transparent liquid.
Shelf Life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage Conditions	Store in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
Density	Specific density: 1.03–1.09 kg/liter (at +20 °C)

pH-Value	3–7
Conventional Dry Material Content	18–30 M.-%
Total Chloride Ion Content	≤ 500 ppm

APPLICATION INFORMATION

Recommended Dosage	0.6–2.5 % by weight of binders
Compatibility	Sikament®-1250 may be combined with many other Sika Products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.
Dispensing	Sikament®-1250 is added to the gauging water or added with it into the concrete mixer. To take advantage of the high water reduction, a wet mixing time, which is depending on the mixing conditions and mixer performance, of at least 60 seconds is recommended. To avoid excess water in the concrete, the final dosage must begin only after 2/3 of the wet mixing time.

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.

ECOLOGY

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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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