

PRODUCT DATA SHEET

SikaPlast®-2500 AE

WATER REDUCING AND RETARDING SUPERPLASTICIZING ADMIXTURE FOR CONCRETE

DESCRIPTION

SikaPlast®-2500 AE is a polycarboxylate based superplasticizer developed particularly for use in ready mixed concrete to give extended slump retention and high strength development of normal grade concrete mixes.

SikaPlast®-2500 AE is suitable for use in concrete mixes incorporating pozzolanic materials such as GGBS, PFA and microsilica.

Suitable for use in hot and tropical climatic conditions.

USES

SikaPlast®-2500 AE is mainly used for the following applications:

- Production of site mixed and ready-mix concrete
- High performance / high strength concrete
- Concrete with low water binder ratio
- Concrete placing in congested steel reinforcement
- Depending on dosage rate used; high flow and self compacting concrete (SCC)
- Concrete requiring retained workability during hot weather production of concrete with extended transportation or placing times
- Slim elements requiring a high standard of surface finish

FEATURES

SikaPlast®-2500 AE acts by surface adsorption on the cement particles producing steric hindrance and electrostatic repulsion between cement particles which results in higher dispersion, flow and retention. SikaPlast®-2500 AE provides the following beneficial properties:

- Powerful plasticising action
- Production of workable concrete at low w/b ratio
- Improved shrinkage and creep characteristics
- Excellent flowability resulting in minimal placing and compacting efforts
- Slower rate of carbonation ingress
- Cost effective, structurally economic
- White cement based products applications
- Higher ultimate strengths allows greater flexibility for engineers to design
- Reduced surface defects so improving aesthetic appearance
- Durable concrete
- Does not contain chlorides or other steel corrosion promoting ingredients

CERTIFICATES AND TEST REPORTS

SikaPlast®-2500 AE follows the requirements of ASTM C494; Type G and EN 934-2

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates, co-polymers
Packaging	1000 L flowbin. Bulk supply in tanker trucks possible on request
Appearance and colour	Brown liquid
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in cool and dry conditions in unopened, undamaged and sealed original packaging at temperatures between +5 °C and +50 °C. Mix well before use.

Density	~1.09 kg/l (+25 °C)
Total chloride ion content	Nil

(EN 934-2)

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using SikaPlast®-2500 AE 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.
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APPLICATION INFORMATION

Recommended dosage	0.3–2 % by weight of binder Higher 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	SikaPlast®-2500 AE 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: <ul style="list-style-type: none"> ▪ SikaPump® ▪ Sika® FerroGard® ▪ SikaFume® ▪ SikaFiber® ▪ Sika® Aer ▪ Sika® Stabilizer ▪ SikaControl® We recommend to perform trial mixes to establish the required performance when combining SikaPlast®-2500 AE with the above products or other admixtures. Please consult our Sika Technical Department.
Dispensing	SikaPlast®-2500 AE is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add SikaPlast®-2500 AE directly to the dry mix. For optimum utilization of its high water reduction property we recommend thorough mixing. The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time to avoid surplus water in the concrete.

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

- When using SikaPlast®-2500 AE a mix design must be selected for the local material sources used and trial mixes performed to verify suitability.
- If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing.
- SikaPlast®-2500 AE should not be added to dry cement.
- Before pouring, suitability tests on the fresh concrete must be carried out.
- Due to the extended workability take special care that formwork is properly installed and secured.

- In case the setting time of concrete is extended, if cured properly, other properties may not be affected and higher ultimate strength is visualized.
- SikaPlast® products are not compatible with admixtures based on supphonated napthalene or melamine.
- When accidental overdosage occurs bleeding and segregation of the concrete and retardation of initial set will be observed.

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.

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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ISO 9001, 14001, 45001 – 905:
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- Sika Saudi Arabia Limited
- Sika MB Construction Chemicals LLC
- Sika Middle East Manufacturing LLC
ISO 9001 – 905:
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- Sika Middle East Manufacturing LLC

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

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Product Data Sheet

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