

PRODUCT DATA SHEET

SikaControl[®]-113 AER

Air Entraining Concrete Admixture

DESCRIPTION

SikaControl[®]-113 AER is a ready to use highly concentrated, air entraining concrete admixture. Its efficiency is based upon the number of correctly sized and evenly distributed air pores imparted to the concrete. Suitable for use in tropical and hot climatic conditions.

USES

SikaControl[®]-113 AER is used to produce easily workable and durable concrete for :

- Roads
- Runways and taxiways
- Aprons and hard standings
- Dams and reservoirs
- Mass concrete structures
- Cold rooms and freezers

PRODUCT INFORMATION

Composition	Blend of organic surface active compounds
Packaging	200 L drum and 1,000 L flowbin Bulk supply in tanker trucks is possible on demand
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight.
Appearance and colour	Clear liquid
Density	~1.05 kg/l (+25°C)
pH-Value	9–11
Total chloride ion content	Nil (EN 934)

FEATURES

SikaControl[®]-113 AER provides the following properties :

- Improved workability
- Improved durability.
- Increased cohesion reducing the risk of segregation.
- Reduced water content without loss of workability.
- Unaffected setting time even when overdosed.

CERTIFICATES AND TEST REPORTS

SikaControl[®]-113 AER complies with ASTM C 260-81

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice for production and placing must be observed when using SikaControl®-113 AER 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

0.03–0.15 % by weight of cement.

It is advisable to carry out trial mixes to establish the exact dosage rate required.

Dispensing

SikaControl®-113 AER is added to the mixing water prior to its addition to the dry concrete mix.

Compatibility

SikaControl®-113 AER can be combined with all Plastiment® and Sika-ment® admixtures. It is compatible with sulfate resistant cement. Please consult our Sika Technical Services Department for any special usage.

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

- Factors affecting air contents, include: type, grading and proportion of sand, and aggregates, cement content per m³, type and fineness of cement, water/cement ratio and temperature. In certain cases therefore, it may be necessary to increase the dosage above 0.15%.
- Air meter tests should be taken regularly and adjustments made to the dosage rate in order to completely control the amount of air entrainment, which should be in the range of 3–6 %.
- When accidental overdosing occurs (within reason), the set retarding effect increases. During this period the concrete must be kept moist in order to prevent premature drying out. There will also be an additional amount of air entertainment.
For higher air entrainment requirement use SikaControl®-113 AER.

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 – SGS
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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.



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