

PRODUCT DATA SHEET

SikaControl® AER-200 P

Reactive Air Entraining Admixture Powder

DESCRIPTION

SikaControl® AER-200 P has been designed and formulated to deliberately introduce air into mortar or concrete in the form of evenly sized and uniformly distributed micro air voids.

USES

SikaControl® AER-200 P has been specifically formulated for use in concrete and dry mortar production. SikaControl® AER-200 P significantly improves the freeze/thaw resistance and therefore the durability of concrete and mortar in outdoor use.

It is recommended that the use of air-entraining admixtures be considered for concrete and mortar in applications such as:

- Shot concrete
- Dams, reservoirs
- Airport runways, hardstands
- Cementitious mortars outdoor use
- Screeds and grouts for shrinkage control

PRODUCT INFORMATION

Composition	Blend of calciumcarbonate and alloy powder
Packaging	18 kg bag, 42 bags/pal., 756 kg/pal.
Shelf life	24 months from date of production if stored in unopened and undamaged original sealed packaging.
Storage conditions	Storage temperatures between +5°C and +45°C in a dry area. Protect from direct sunlight, freeze and contamination.
Appearance and colour	Silver-greyish powder
Bulk density	Approx. 0.99 kg/dm ³
Total chloride ion content	< 0.10%
Equivalent sodium oxide	< 1.00%

FEATURES

Creation of air voids with SikaControl® AER-200 P is based on a chemical reaction (active air-entrainer). The following advantages can be achieved using SikaControl® AER-200 P:

- Improvement of the freeze/thaw resistance and durability of the concrete
- Increased air void stability in concrete
- High robustness in changes of aggregates
- No influence of mixing time and mixing energy on air-entrainment
- Suitable for all type of blended cement
- Reduced early shrinkage
- Pore size mainly < 0,3 mm

CERTIFICATES AND TEST REPORTS

Conforms to the requirements of EN 934 – 2, Table 5

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice, concerning production and placing, are to be followed.
Laboratory trials shall 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. Compatibility information available on request.

APPLICATION INFORMATION

Recommended dosage

0.2 – 0,4 % on cement weight as shrinkage compensator
0,4 - 1,5 % on cement weight as air-entrainer

Dispensing

The dry mortar, containing SikaControl® AER-200 P, should be thoroughly mixed in a forced action mixer and accurately dosed with suitable calibrated equipment.
In concrete application, SikaControl® AER-200 P is added at the time of batching to the concrete. Depending on the operation it is either added in a soluble bag or with a powder dispenser into the concrete mixer. Or add SikaControl® AER-200 P to the fine and coarse aggregate. Time between adding SikaControl® AER-200 P on moist aggregates and adding cement and gauging / mixing water shouldn't exceed 30 seconds. The w/b-ratio and consistency control remains the responsibility of the concrete producer.

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.

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 the 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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SikaControl® AER-200 P
November 2023, Version 02.05
021403021000000185

SikaControlAER-200P-en-DE-(11-2023)-2-5.pdf

