

PRODUCT DATA SHEET

SikaControl®-721 AER

(formerly MasterAir® 721)

Air-entraining admixture for concrete

DESCRIPTION

SikaControl®-721 AER is an air-entraining admixture which creates ultra-stable air bubbles that are strong, small and closely spaced.

USES

Entraining controlled air content in a wide range of concrete types:

- Low slump concrete
- Flowable concrete
- High temperature concrete
- Concrete with extended working times
- Lightweight and pre-stressed concrete
- Imparting workability to lean harsh mixes
- Reducing bleeding causing by garing deficiencies

CHARACTERISTICS / ADVANTAGES

The use of SikaControl®-721 AER to entrain optimum air content in concrete results in the following improvements in concrete quality:

- Improved ability to entrain and retain air in concrete
- Improved air-void system in harden concrete
- Reduced permeability -increased watertightness
- Improved plasticity and workability
- Reduced segregation and bleeding
- Increased freeze / thaw resistance
- Increased resistance to scaling
- Greatly improved stability of air entrainment

APPROVALS / STANDARDS

ASTM C260, EN 934-2:T5

PRODUCT INFORMATION

Packaging	20kg, 200kg drum
Shelf life	12 months in undamaged, unopened, original sealed packaging.
Storage conditions	SikaControl®-721 AER must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your local Sika representative.
Appearance / Colour	Pink free flowing liquid
Density	1.01 ± 0.01 at 25°C
pH-value	≥ 6

APPLICATION INFORMATION

Recommended Dosage	Optimum dosage of SikaControl®-721 AER should be determined in trial mixes. As a guide, a dosage range of 40ml to 800ml per 100kg of cementitious material is recommended. As a starting point use 100ml / 100kg of cement and adjust in the light of results obtained.
Dispensing	SikaControl®-721 AER is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of SikaControl®-721 AER to dry aggregate or cement is not recommended.

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, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing 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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