

PRODUCT DATA SHEET

SikaControl[®]-11 AER

Air Entraining Concrete Admixture

DESCRIPTION

SikaControl[®]-11 AER ready to use highly concentrated air entraining concrete admixture. Its efficiency is based upon the entrainment of a high number of correctly sized and evenly distributed airpores.

USES

SikaControl[®]-11 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

CHARACTERISTICS / ADVANTAGES

SikaControl[®]-11 AER provides the following beneficial properties:

- Increased frost resistance
- Resistant to de-icing salts
- Improved workability
- Improved durability
- Increased cohesion reducing the risk of segregation
- Reduced water content without loss of workability
- Unaffected setting time even when overdosed
- It supports making light weight concrete

APPROVALS / STANDARDS

IS 9103-1999, ASTM C260-81

PRODUCT INFORMATION

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|----------------------------|----------------------------------------------------------------------------------------------------------|
| Chemical Base | Surface active agent |
| Packaging | 230 kg |
| Appearance / Colour | Clear colourless 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 +10°C and +40°C. Protect from direct sunlight and frost. |
| Density | ~ 1.01 kg/l at 25°C |
| pH-Value | ≥ 6 |

APPLICATION INFORMATION

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| Recommended Dosage | 0.03% to 0.15% by weight of cement. Exact dosage rates are determined by air meter tests in trial mixes. Factors affecting air contents, include: type, grading and proportion of sand, cement and aggregates, cement content/M3, type and fineness of cement, water cement ratio and temperature. In certain cases it may be necessary therefore to increase the dosage by more than 0.15%. Air meter tests should be taken consistently and adjustment made to the dosage rate in order to completely control the amount of air-entrainment, which should be in range of 3 – 6%. |
| Compatibility | SikaControl®-11 AER may be combined with many other Sika® products. Important: Always conduct trials before combining products in specific mixes and combinations. Compatible with all types of cement and cementitious materials. |
| Dispensing | SikaControl®-11 AER is added directly to the mixing water prior to its addition to the aggregates. |

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.

LIMITATIONS

Increased air content generally have a detrimental effect on strengths. Air factor must be considered while designing the concrete mix.

If frozen and / or if precipitation has occurred, SikaControl®-11 AER may be used after thawing slowly at room temperature and after intensive mixing.

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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