

PRODUCT DATA SHEET

Sika® AIR

AEA – AIR ENTRAINING AGENT

DESCRIPTION

Sika® AIR is an air-entraining agent based on synthetic surfactants. Its efficiency is based upon the entrainment into the mix of a high number of correctly sized and evenly distributed air bubbles.

USES

Sika® Air is used to:

- improve resistance to freeze-thaw action in hardened concrete;
- increase cohesion, reducing the concrete's tendency to bleed in the plastic state;
- improve compaction of low workability mixes including semi-dry concrete.

PRODUCT INFORMATION

Packaging	205 litre drum Bulk deliveries
Appearance / Colour	Clear orange-brown water-based liquid
Shelf Life	Stored at temperatures between 5°C and 35°C in unopened original containers protected from direct sunlight and frost, shelf life is at least one (1) year.
Storage Conditions	Store at temperature between 5°C and 35°C ,protected from direct sunlight and frost.
Specific Gravity	1.01 g/cm ³

CHARACTERISTICS / ADVANTAGES

- Increased freeze-thaw resistance.
- Reduced bleed water.
- Improves concrete workability.
- Increases cohesion and reduces the risk of segregation.
- No effects on setting time.

APPROVALS / STANDARDS

Sika® AIR meets and exceeds all requirements of Australian Standard 1478.1-2000 for Air-entraining Admixture (AEA).

Recommended Dosage

Typical dose rate for general concrete production ranges within 50-150 mls per cubic meter of concrete.

For low slump concrete (<65 mm slump) and pavement type concrete, specific concrete that contain high volumes of fly ash, substantially higher dose rates of Sika Air may be required to achieve the desired air content. Typical dose rates for high volume fly ash low slump concrete range from 100-600 mls per cubic metre of concrete.

Optimum dosage depends on the type of concrete, site conditions, mix proportions and desired plastic and hardened concrete properties. Laboratory and/or field trials are essential in determining the optimum dosage. Factors affecting air content include sand, cement, fly ash, aggregates and combinations with other admixtures.

Dispensing

Sika® AIR is added directly to the mixing water.

LIMITATIONS

Exact dosage rates of Sika® AIR can be determined by air meter test in trial mixes.

High air content will most likely have a detrimental effect on strengths.

For additional information, please contact your local Sika Representative.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related 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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