

Product Data Sheet

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Identification no:

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Sika®-Aer

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Air entraining concrete admixture

Product**Description**

A ready to use, highly concentrated air entraining concrete admixture. Its efficiency is based upon the entrainment into the mix of a high number of correctly sized and evenly distributed air pores.

Uses

Sika®-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

Sika®-Aer provides the following 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

Tests**Approval/Standards**

Complies with A.S.T.M. C 260-81

Product Data**Form****Appearance/Colours**

Liquid

Clear amber

Packaging

25 litre plastic containers

Storage**Storage Conditions / Shelf-Life**

12 months in original unopened containers. Store in a dry area between 5°C and 25°C.

Technical Data**Chemical Base**

Surface Active Agents

Density

1,01 kg/litre

Construction

| | |
|--------------------------------------|--|
| pH Value | 3.0 |
| System Information | |
| Application Details | |
| Consumption/Dosage | 0.03 - 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 per cubic metre, type and fineness of cement, water cement ratio and temperature. In certain cases therefore, it may be necessary to increase the 0.15% dosage rate. Air meter tests should be taken consistently 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%. |
| Application Instructions | |
| Mixing (Ratio/Dosage) | Sika-Aer is added directly to the mixing water, prior to its addition to the aggregates. Increased air contents, generally have a detrimental effect on strengths. This can be adequately catered for by using a Plastiment [®] , Sikament [®] or ViscoCrete [®] admixture. Please refer to our Technical Services Department. |
| Notes on Application / Limits | |
| Local restrictions | Please note that, as a result of specific local regulations the performances of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields. |
| Health and Safety Information | |
| Protective Measures | Upon contact with skin, wash off with water and soap. In case on contact with eyes or mucous membrane, rinse immediately with clean water and seek medical attention without delay. |
| Ecology | |
| Transportation Class | |
| Important Notes | Residues of material must be removed according to local regulations. Fully cured material must be disposed of as household waste under agreement with the responsible local authorities. Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data must be obtained from the Material Safety Data Sheet. |
| Toxicity | |
| 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 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, must be inferred either from this information, or from any written recommendations, or from any other advice offered. 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 Product Data Sheet for the product concerned, copies of which will be supplied on request or accessed on the Internet under www.sika.co.za . |



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