



PRODUCT DATA SHEET

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POWDERED ADMIXTURES

Sika® Air Booster (FT)

Air Entraining Admixture

Description	Sika® Air Booster is a powdered air entraining admixture for concrete.								
Where to Use	<ul style="list-style-type: none"> ▪ Sika® Air Booster can be used as primary air entrainment admixture or to boost low air content in air entrained concrete. It is recommended for use in exterior concrete such as highway paving, curbs and gutters, sidewalks, driveways, slabs, walls, or other areas needing protection from freeze/thaw damage or the harmful effect of de-icing salts. 								
Advantages	<p>Durability:</p> <ul style="list-style-type: none"> ▪ Air entrainment is recognized as the most effective prevention against concrete scaling in exposed environments. Air entrained concrete delivers particular benefits in the form of increased concrete durability. This is important in colder climates where frost and freeze-thaw cycles can cause scaling and damage to the concrete surface. ▪ Air entraining agents help to prevent scaling by creating microscopic air voids systems that water trapped in the concrete can expand into when the concrete freezes, thus preventing cracks caused by their natural expansion. Entrained air voids in the concrete will also increase durability in harsh environments where concrete is exposed to de-icing salts, marine salts and sulfates. <p>Workability and Placeability:</p> <ul style="list-style-type: none"> ▪ Workability and placeability are also improved by the lubricating action of the microscopic bubbles in the concrete allowing it to flow better. Bleeding and shrinkage are reduced because less water is needed to obtain the desired workability. Sika® Air Booster provides stable and predictable air contents in concrete, with a uniform air bubble spacing throughout the concrete matrix. <p>Flexibility of use:</p> <ul style="list-style-type: none"> ▪ Sika® Air Booster is packaged in pre-measured water soluble bags that can be added directly to the mixing vessel. Thanks to its convenient packaging format, Sika® Air Booster is easily stored and transported (product not sensitive to frost). Sika® Air Booster is recommended for addition at the plant or at the job site, in the ready-mix truck. 								
Standards	Information to come.								
	<table border="1"> <tr> <td>Typical Data</td> <td></td> </tr> <tr> <td>Packaging</td> <td>454 g (1 lb) water-soluble, overpacked bags. 12 bags/box.</td> </tr> <tr> <td>Colour and form</td> <td>White-beige powder</td> </tr> <tr> <td>Shelf Life and storage</td> <td>1 year in original, unopened and undamaged packaging. Store dry at warehouse temperatures between 5 and 30 °C (41 and 86 °F). Protect from moisture.</td> </tr> </table>	Typical Data		Packaging	454 g (1 lb) water-soluble, overpacked bags. 12 bags/box.	Colour and form	White-beige powder	Shelf Life and storage	1 year in original, unopened and undamaged packaging. Store dry at warehouse temperatures between 5 and 30 °C (41 and 86 °F). Protect from moisture.
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HOW TO USE

DOSAGE **Typical dosage (at the plant):** 25 - 50 g/100 kg of cementitious material to entrain between 5 - 8 % air entrainment. Higher air contents may be obtained by increasing the dosage. Furthermore, dosage will vary depending on the air content required for a particular project.

Sika® Air Booster - Dosage adjustments at the job site

For ready-mix concrete (based on a 8 m³ truck-mixer load)

- Concrete **with air entrainer**: Add **one (1) bag of 454 g/8 m³**

- Concrete **without air entrainer**: Add **two (2) bags of 454 g/8 m³**

For any other concrete quantities/applications (i.e. industrial/manufactured concrete, etc.)

- **16 g/100 kg** of cement for concrete **with air entrainer**

- **32 g/100 kg** of cement for concrete **without air entrainer**

The nature of various concrete materials, slump, ambient air temperature, mineral additions (such as silica fume), mixing time and energy will affect dosage. In addition, a regular program of air testing should be instituted in order to adjust the dosage to changing conditions. Contact your Sika Canada Technical Sales Representative for further information.

Mixing Add Sika® Air Booster at the concrete plant or in the concrete truck. Mix at high speed for 5 to 7 minutes to ensure that the admixture is uniformly dispersed in the concrete mix. It is possible to add more Sika® Air Booster if greater air entrainment is desired.

Compatibility with Other Admixtures:

Sika® Air Booster is compatible with other air-entraining admixtures. When using in combination with other admixtures, dispense each admixture separately into the mix.

Important: Remove Sika® Air Booster bag from its overpack (non water-soluble) before throwing it into mix.

Limitations

- The overpack containing the bag of Sika® Air Booster bag is non water-soluble and must not be thrown in the mix. Only the bag containing the admixture itself is water-soluble and will dissolve in the concrete mix.
- Product must be stored in a dry area. Do not use open or broken bags

Clean Up Use personal protective equipment (chemical resistant goggles/gloves/clothing). Without direct contact, remove spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

Health and Safety Information For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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