

## Sika® AER

### Air Entraining Admixture

<b>Description</b>	<p>Sika AER admixture is a concentrated liquid solution of neutralized vinsol resin.</p> <p>Sika AER meets the requirements of ASTM C-260 for Air Entraining Admixtures.</p>
<b>Applications</b>	<p>Sika AER can be used whenever air entrained concrete is desired. Ready-mix, precast and block producers can achieve optimum entrained air contents, even where harsh mixes are used or fly-ash is added to the mix.</p> <p>Sika AER is an effective and economical means to improve the paste quality of lean concrete mixes.</p>
<b>Advantages</b>	<p><b>Durability:</b> 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.</p> <p>Air entraining agents help to prevent scaling by creating millions of microscopic air voids that water trapped in the concrete can expand into when the concrete freezes, thus preventing cracks caused by the natural expansion. Entrained air voids in the concrete will also increase durability in harsh environments where concrete is exposed to deicing salts, marine salts and sulfates.</p> <p><b>Workability and Placeability:</b> Workability and placeability are also improved by the lubricating action of the microscopic bubbles in the concrete. The concrete flows better, bleeding and shrinkage is reduced because lower water content is needed for desired workability.</p> <p>It has been formulated and manufactured specifically to provide stable and predictable air contents in concrete, with uniform air bubble spacing throughout the concrete matrix.</p>
<b>How to Use</b>	
<b>Dosage</b>	<p>Dosage rates for Sika AER will typically fall between 0.5 and 1.5 fl. oz./100 lbs. (32 - 97 ml/100 kg) of cementitious to entrain between 4 and 6 percent air. Higher air contents may be obtained by increasing the dosage rate.</p> <p>Dosage rates will vary depending on the air content required for a particular project. Typically air contents will be specified in the range of 4 to 8 percent by volume.</p> <p>Other factors that may affect the amount of air entrained into the concrete include, but are not limited to total cementitious content, type of pozzolanic materials, sand gradation, temperature and water content. Sika recommends that trial mixes be tested whenever material or any other changes are made that may affect the amount of entrained air.</p>

Construction



<b>Mixing</b>	Measure the required quantity per batch manually or with automatic dispenser equipment. Add Sika AER to mixing water or sand. Do not mix with dry cement. When used in combination with other admixtures, care must be taken to dispense each admixture separately into the mix.  <b>Combination with Other Admixtures:</b> Combination with other admixtures, particularly water reducers and retarders, will tend to increase the amount of entrained air in the mix. Air contents should be checked with an air-meter after batching and dosage adjustments made at the concrete plant.
<b>Packaging</b>	Sika AER is supplied in 55 gallon (208 liter) drums and bulk delivery.
<b>Storage and Shelf Life</b>	Sika AER should be stored at above 40°F (5°C). If frozen, thaw and agitate thoroughly to return to its normal state before use.  Shelf life when stored in dry warehouse conditions between 50°F and 80°F (10°C - 27°C) is one year.
<b>Typical Data</b>	
<b>Appearance</b>	Dark Brown Yellow liquid.
<b>Specific Gravity</b>	Approx. 1.0
<b>Caution</b>	Skin and eye irritant; avoid contact. The use of NIOSH approved respirator, safety goggles and rubber gloves is recommended. Avoid breathing product. Use with adequate ventilation. Remove contaminated clothing.
<b>Handling and Storage</b>	Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.
<b>First Aid</b>	<b>Eyes:</b> Hold eyelids apart and flush thoroughly with water for 15 minutes. <b>Skin:</b> Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. <b>Inhalation:</b> Remove person to fresh air. <b>Ingestion:</b> Do not induce vomiting. Dilute with water. Contact a physician. <b>In all cases, contact a physician immediately if symptoms persist.</b>
<b>Clean Up</b>	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.

KEEP CONTAINER TIGHTLY CLOSED  
NOT FOR INTERNAL CONSUMPTION  
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

KEEP OUT OF REACH OF CHILDREN  
FOR INDUSTRIAL USE ONLY

Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

**NO OTHER WARRANTIES EXPRESSED OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Marion: FM 69715, Kansas City: FM 69107, Santa Fe Springs: FM 69408

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