

SikaAer[®]

AEA – Air Entraining Agent

Construction

Description	SikaAer [®] is a ready to use highly concentrated synthetic 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	SikaAer [®] can be used to produce workable and durable concrete for: <ul style="list-style-type: none"> • Roads • Runways and taxi ways • Dams and reservoirs • Mass concrete structures • Concrete high in cementitious content
Advantages	<ul style="list-style-type: none"> • Improves concrete workability. • Improves concrete durability. • Increases cohesion and reduces the risk of segregation. • Reduces water content without losing workability. • No effect on setting times. • Increased frost resistance. • Reduced bleed water
Storage and 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.
Application	
Dosage	<p>Typical dosage is at the rate of 40mls-125mls per cubic meter of concrete. Optimum dosage should be determined by site trials.</p> <p>Factors affecting air content include sand, cement, fly ash and aggregates used (in concrete).</p> <p>Low Slump Concrete (<65mm slump)</p> <p>For low slump and pavement type concretes, particularly ones that contain high volumes of fly ash, may require substantially higher dose rates of SikaAer[®] to achieve the desired air contents. Typical dose rates for high volume fly ash low slump concrete range from 100-600 mls per cubic meter of concrete.</p>
Mixing	SikaAer [®] is added directly to the mixing water.
Application Method	Concrete mixed with SikaAer [®] is transported to site in readymix trucks. Concrete should be placed according to good concrete practices and proper curing procedures should take place.
Specification Type	<p>SikaAer[®] meets and exceeds all requirements of Australian Standard 1478.1-2000 for Air-entraining Admixture (AEA).</p> <p>Queensland Government Department of Main Roads approved.</p>

Technical Data (Typical)

Form	Liquid mixture of surfactants
Colour	Clear brown
Density (20°C)	1.01 kg/litre approx.
pH Value (20°C)	2.0 ± 0.5
Chloride Content	No added chlorides
TEA Content	Does not contain triethanolamine
Packaging	20 litre pail 205 litre drum Bulk deliveries

Important Notes

- Exact dosage rates of SikaAer® should be determined by air meter tests in trial mixes.
 - Air meter tests should be taken regularly and adjustments made to the dosage rate in order to completely control the amount of air entrainment.
 - Higher air contents, (typically above 5%) will most likely have a detrimental effect on strengths.
 - For additional information, please contact your local Sika Representative.
-

Handling Precautions

- Avoid contact with skin and eyes.
 - Wear protective gloves and eye protection during work.
 - If skin contact occurs, wash skin thoroughly.
 - If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.
 - A full Material Safety Data Sheet is available from Sika on request.
-

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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, can 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 of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

