

### PRODUCT DESCRIPTION

AEA™ is an aqueous solution of a complex mixture of organic acid salts. AFZIR AEA™ is specially formulated for use as an air-entraining admixture for concrete and is manufactured under rigid control which provides uniform, predictable performance. It is supplied ready-to-use and does not require premixing with water.

### PRODUCT FEATURES

- Ready-to-use in the proper concentration for rapid, accurate dispensing.

### PRODUCT USES

AEA™ is recommended for use whenever air entrained concrete is desired. Ready-mix, precast and block producers can achieve predictable and uniform entrained air contents in concrete, even where harsh lean mixes are used or fly ash is added to the concrete.

### HOW TO USE

#### DOSAGE

- There is no standard dosage for AEA™ admixture. The exact quantity of air-entraining admixture needed for a given air content of concrete varies because of differences in concrete-making materials and ambient conditions. Typical factors that might influence the amount of air entrained include temperature, cementitious materials, sand gradation, sand aggregate ratio, mixture proportions, slump, means of conveying and placement, consolidation, and finishing technique. The amount of AEA™ admixture used will depend upon the amount of entrained air required under actual job conditions. In a trial mixture, use 16-260 mL/100 kg of cementitious material. Measure the air content of the trial mixture, and, if needed, either increase or decrease the quantity of AEA™ admixture to obtain the desired air content.
- In mixtures containing water-reducing or set-control admixtures, the amount of AEA™ admixture needed may be somewhat less than the amount required in plain concrete.

#### MIXING

- Add AEA™ admixture to the concrete mixture using a dispenser designed for air-entraining admixtures, or add manually using a suitable measuring device that ensures accuracy within plus or minus 3% of the required amount.
- For optimum, consistent performance, the air-entraining admixture should be dispensed on damp, fine aggregate. If the concrete mixture contains fine lightweight aggregate, field evaluations should be conducted to determine the best method to dispense the air-entraining admixture.

#### APPLICATION

- AEA™ is used in ready-mix, block and concrete products plants. It is also used on the job with jobsite mixers, highway pavers and wherever concrete is mixed and there is a need for purposeful air entrainment. Because AEA™



*Air Entraining Admixtures - AEA™*

imparts workability to the mix, it is particularly effective with slag, lightweight, or manufactured aggregates which tend to produce harsh concrete. It also makes possible the use of natural sand deficient in fines.

### LIMITATIONS

- Exact dosage rates of AEA™ 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 AFZIR.

### SHELF LIFE

AEA™ admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of AEA™ admixture has been exceeded.

### STORAGE

AEA™ admixture should be stored and dispensed at -0.5 °C or higher. Although freezing does not harm this product, precautions should be taken to protect it from freezing. If AEA™ admixture freezes, thaw at 2 °C or above and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation.

### SAFETY

Chemical goggles and gloves are recommended when transferring or handling this material.

### DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.