

REC AER A-92

Air-entraining agent in powder form

DESCRIPTION

Rec AER A-92 is a high-performance powder-form air-entraining admixture specially formulated to produce a stable and uniformly distributed microscopic air-void system in cementitious mixes. It enhances the workability, cohesiveness, and durability of concrete and mortar while significantly improving resistance to freeze-thaw cycles, de-icing salts, and surface scaling. The product is easy to disperse in dry-mix formulations and is suitable for use in ready-mix concrete, precast concrete, masonry mortar, plaster, and cement-based repair mortars.

PRIMARY APPLICATIONS

- Ready-mixed concrete
- Structural concrete
- Mass concrete construction
- Paving concrete
- Exterior concrete work exposed to freeze/thaw conditions

PROPERTIES

- **Rec AER A-92** can entrain 2% to 6% air volume in the concrete. It produces an air-void system of microscopic air bubbles that remains stable in the plastic concrete enabling the improvement of frost durability of the concrete.
- Less mixing water can be used per cubic meter of concrete and overall workability is improved.
- Minimizes bleeding and segregation.

TECHNICAL INFORMATION

Appearance	White Powder
Specific Gravity	1.17 ± 0.01

APPLICABLE STANDARD

Rec Aer A- 92 complies with ASTM – C 260, BS 5075

PACKAGING

Rec AER A-92 is packed in 1 kg plastic bag.

SHELF LIFE

Rec Aer A- 91 can be stored up to 1 year from manufacturing date under cover, out of direct sunlight and protected from extreme temperatures

DIRECTION OF USE

Rec AER A-92 is typically introduced during concrete mixing the amount to be used will vary depending on type of cement, fineness of sand, temperature, mix design, etc. Concrete mixtures must be tested regularly to confirm that the proper air content is achieved.

For adequate resistance to freezing and thawing, the volume of entrained air should be about 4% to 6%, depending on the maximum size of aggregates.

Above these values, a reduction in mechanical strength can be noted.

DOSAGE

A dosage of 0.15 kg per 100 kg of cement is recommended as a starting point.

The required dosage depends on the concrete mixture and mixing conditions and can range between 0.15 kg and 1 kg / 100kg of the cement mass.

HEALTH & SAFETY

The product contains very fine powder which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning thoroughly with soap and water. In case of contact with eyes, wash thoroughly with clean water and seek medical attention. If swallowed, do not induce vomiting and seek medical attention. The product is non-flammable.

QUALITY STATEMENT

All our products are manufactured to comply with our internal QA/QC program and quality management system to ensure consistency and quality

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their applications are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that the Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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