

REC AER A-91

Air-entraining Admixture for Concrete

DESCRIPTION

Rec AER A-91 is a liquid air-entraining agent, which increases the durability and quality of the concrete and its resistance to freezing and thawing and de-icing salt scaling.

The millions of tiny air bubbles proportionately distributed throughout the entire mass of wet concrete mixture enables it to achieve higher workability retention, better cohesion, eliminates shrinkage cracking and provides greater resistance to freezing and thawing damage without any remarkable decline in concrete mechanical properties.

PRIMARY APPLICATIONS

Rec Aer Rec AER A-91 is suitable for large areas of concrete where damage by frost or shrinkage cracking is likely to happen. Rec AER A-91 is suitable to use with various cement types, including ordinary Portland cement and concrete made with silica fume, GGBS, and fly ash in the following areas:

- Paving of motor-ways
- Airport runways
- Barriers and reservoirs
- Sea works
- Large structures
- Correction of grain-size distribution of natural sands that are poor in fine elements

PROPERTIES

- Rec AER A-91 introduced into the concrete, generates a network of stable microscopic air bubbles, thus diminishing the phenomena of capillarity.
- In fresh concrete, Rec AER A-91 produces some plasticizing effect which allows the reduction of water demand by approximately 6% and enhancement in workability retention.
- Rec AER A-91 improves frost resistance of concrete.
- Rec AER A-91 prevents bleeding and improves cohesion. The consolidation of the plastic concrete becomes better enabling the hardened concrete to be denser and develop a waterproofing effect.
- This product has been developed specially to resist water permeability in hardened concrete and to secure excellent surface finish and limit the risk of errors due to excessive dosage.

TECHNICAL INFORMATION

Appearance	Clear Brown Liquid
Specific Gravity @ 20 °C.	1.015 ± 0.01
Chloride content	NIL– BS 5075

APPLICABLE STANDARD

Rec Aer A- 90 complies with ASTM – C 260, BS 5075

PACKAGING

Rec AER-A-91 is supplied in: 20 Kg Packing

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-91 is totally miscible in water. It must be incorporated into the mixing water. The quantity of water and dosage of Rec Aer A-91 can be determined considering the properties required for the concrete mixture.

DOSAGE RATES

Dosage rates range from 50 to 900 ml/100kg of cement special laboratory trials should be carried out to define the optimum dosage needed to obtain the required air content. Special considerations are to be taken while dispensing Rec Aer A-91.

HEALTH & SAFETY

In case of contact with skin or eyes, rinse thoroughly with water. If irritation persists, seek medical attention. If swallowed, do not induce vomiting and seek medical attention.

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

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