

ConAd AE

Air Entraining Admixture for Concrete

DESCRIPTION

ConAd AE is an aqueous solution of a unique, synthetically manufactured surfactant for the air entrainment of concrete. **ConAd AE's** patented formula provides superior controllability of the air content, and finish ability in air entrained concrete. It increases concrete's durability making it more resistant to the damaging effects of freezing and thawing while improving workability and reducing bleeding. It is carefully formulated and subjected to stringent quality control in order to guarantee superior results in both the plastic and hardened concrete.

BENEFITS

- Improves workability.
- Reduces bleeding.
- Superior resistance to freeze-thaw cycles and scaling.
- Improves appearance of architectural concrete.
- Reduces size and number of capillary channels increasing impermeability.
- Increased compressive strength in lean mixes.
- Substantially increased durability.
- Increases moisture retention for cement hydration.
- Superior air voids system.

RECOMMENDATIONS

ConAd AE is designed for use in exterior concrete such as highway paving, curb and gutters, sidewalks, driveways, lean, slabs, walls or other areas needing protection from freeze-thaw damage or the harmful effect of de-icing salts.

ConAd AE is effective in increasing the workability of the concrete especially in lean or harsh mixes. Combine **ConAd AE** with RADIANT Super Plasticizers for ultimate strengths and durability, containing pozzolanic materials such as fly ash, silica fume and slag.

Technical Specs & Physical Properties

Appearance	Brown Liquid
Specific Gravity	1.14 @ 25° C
Chloride Content	Nil

APPLICABLE STANDARDS

ConAd AE meets or exceeds the requirements of **ASTM C- 260 ASTM C- 494**.
U.S. Patent No. 4,689,083.

ANSI/NSF STD 61.

DOSAGE

ConAd AE Dosage rates vary depending upon the amount of plasticity and/or water reduction desired.

The recommended dosage range for **ConAd AE** is 800 ml to 1500 ml/- 100 kg. of cement. Various concrete making materials, slump, and ambient air temperature, additions of pozzolanic materials, mixing time and type and brand of cement will affect dosage rates.

Conduct trial mixes to determine the dosage necessary for **ConAd AE** to obtain the required percentage of entrained air. In addition, a regular program of air tests should be instituted in order to adjust the dosage to changing conditions.

DIRECTIONS FOR USE

ConAd AE can be dispensed into any of the concrete materials, except cement or fly ash, but preferably into the water. **ConAd AE** is compatible with other admixtures; however, each admixture should be added to the mix separately. **ConAd AE** should be kept from freezing. If accidentally frozen, its properties can be restored by thawing and thoroughly remixing by mild mechanical agitation.

PACKAGING

ConAd AE is supplied in **(210 Liters Drum)**

TECHNICAL SERVICES

A trained RADIANT representative is available to assist in the preparation of specifications, and the resolution of concrete problems in the field.

HANDLING & STORAGE

ConAd AE has a shelf life of 12 months if kept in a dry cool place in the original packing.

ConAd AE should be kept from freezing. If accidentally frozen, its properties can be restored by thawing and thoroughly re-mixing by mild mechanical agitation.

HEALTH & SAFETY PRECAUTIONS

During use avoid contact with skin and eyes. Suitable gloves, eye protection must be used. In case of contact with skin or eyes, it shall be immediately washed with fresh water.

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Important Note:

RADIANT Construction Technologies manufactures wide range of construction chemicals, including admixtures, concrete repairing mortars, curing compounds, adhesives, concrete protection coatings, waterproof coatings, grouts & Tile Bond.

Separate Technical Data Sheets are available for these products.