

## ConAd FA

Foaming Agent for Light Weight  
Screeds & Concrete

### DESCRIPTION

**ConAd FC** is a foaming agent for use in all types of light weight screeds and concrete. It is basically designed for use in the manufacturing of foam concrete and for use with artificial and natural aggregate of bulk densities 400 Kg. – 1000 Kg. per m<sup>3</sup>.

### USES

**ConAd FA** is used for the bubbling light weight concrete which has many applications such as;

- Making of roof falls without addition of unnecessary weight on the existing building.
- Insulation on roofs.
- Insulation in wall panels.
- Insulation of pipes in cold environments.

### BENEFITS

- Weight reduction
- Thermal insulation
- Does not attach iron or steel
- Low water absorption
- Chloride free
- Economical to use

### TECHNICAL DATA:

Appearance	Light Yellow Liquid
Specific Gravity	1.01 @ 20° C
Chloride Content	Nil
Nitrate Content	Nil
Freezing Point	-2 <sup>0</sup> C
Flash Point	None
Storage	Store in covered area
Shelf Life	One year

### DOSAGE

**ConAd FA** dosage rates vary depending upon the amount of foaming or density desired. Typical dosage 200-500 gm per cement bag/ (50 kg Bag).

### DIRECTIONS FOR USE

**ConAd FA** has an advantage over other foaming agents, in that it can be used with all kinds of foam generating machines.

It is supplied ready for use in plastic bucket. It should be added to screed, concrete or mortar mixes during the mix process at the same time as the water or the aggregates.

### CONSIDERATIONS

**Cement:** The quantity of the cement will mainly determine the strength of the concrete. It should be fresh and fine to yield a homogeneous mix.

**Water-Cement Ratio:** Water-cement ratio is very critical due to its effect on the quality of foam

concrete. The compressive resistance of the foam concrete is also determined by the homogenous distribution of the pores. The more even the distribution and smaller the pores, the better the compressive strength. The homogeneity is also a function of the consistency and thus of water ratio.

According to experience the most advantageous water-cement ratio lies between 0.4-0.45, too much water would have an adverse effect on the setting period.

Our experience has shown that cubic meter of foam concrete requires between 400-450 Kg. of cement depending on initial densities.

**Figure 1: Typical volume of starting mortar required per cubic meter of finished foamed concrete Kg/m<sup>3</sup>:**

**Target Dry Density Kg/m<sup>3</sup>:**  
**Cement: Sand ratio:**

1:1	1:2	1:3	1:4
600-800	800-1000	1000-1200	1200-1400

## PACKAGING

**ConAd FA** is supplied in (30 Ltr./ 210 Ltr.)

## 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 FA** has a shelf life of 12 months if kept in a dry cool place in the original packing.

**ConAd FA** 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.