

## ConAd AF

Anti-Freeze Admixture for Low Temperature Concrete

### DESCRIPTION

ConAd AF is a new generation, cost effective, non-chloride accelerating admixture for concrete. It is designed to accelerate the setting time of concrete and particularly that of fly ash concrete, while providing higher early and ultimate strengths, especially designed for low temperature concrete.

### BENEFITS

- Set acceleration without corrosion.
- Controlled acceleration (determined by dosage).
- Reduced segregation and bleeding.
- Greater impermeability.
- Increased durability and uniformity.
- Increased strength at all ages.

### RECOMMENDATIONS

ConAd AF is designed for concrete where accelerated-setting are desired. It is especially effective in concretes containing such pozzolanic materials as fly ash, silica fume and slag.

ConAd AF is recommended for applications where the use of chlorides would be undesirable such as:

- Prestressed concrete
- Concrete bridge deck repair
- Concrete placed on galvanized steel floor and roof systems
- Concrete pipe
- Reinforced concrete in most environments

In addition to the set-accelerating characteristics of ConAd AF 111 strength gains allow earlier finishing and form removal as well as reducing energy costs in cold weather concreting.

### COLD WEATHER CONCRETING

ConAd AF is very effective at continuing the heat of hydration process at low temperatures.

### TECHNICAL & PHYSICAL PROPERTIES

Appearance	Dark Brown Liquid
Specific Gravity	1.15 @ 20° C
Chloride Content	NIL
PH Value	6-8.5

### APPLICABLE STANDARDS

ConAd AF meet or exceed the requirements of ASTM C 494; Type A, F, admixture.

### STATEMENT

At RADIANT, we believe it is critical that the accelerator be noncorrosive. To accomplish this fact, ConAd AF contains no chlorides or thiocyanates. ConAd AF is a truly noncorrosive accelerator. ConAd AF WILL NOT prevent concrete from freezing. For sub-freezing temperatures, we suggest using ConAd AF.

### PACKAGING

ConAd AF is supplied in **(210 Liters Drum)**.

### DOSAGE

ConAd AF is normally used at dosage rates of 1 liter to 2.05 liter per 100 kgs of cement. As the quantity is increased, the acceleration of setting time is increased. It is suggested that trial mixes

be conducted in order to determine the required dosage for optimum performance with specific concrete components.

## VALUE

ConAd AF provides the greatest value in a non-chloride accelerator when comparing rate-of-set acceleration, strength gain, and treated cost of concrete. Also, compare the performance and value of RADIANT's high quality admixture when producing high performance concrete.

## DIRECTIONS FOR USE

ConAd AF can be dispensed into any of the concrete materials, except cement, but preferably into the water. It is compatible with other admixtures; however each

## HANDLING & STORAGE

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

ConAd AF should be kept above 5°C (40°F). If accidentally frozen, its properties can be restored by thawing and thoroughly re-mixing by mild mechanical agitation.

## TECHNICAL SERVICES

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

## 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.

## 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.