

## CONFLO BOND-A

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Accelerating, water reducing admixture

### Uses

As an accelerator for use in concrete and cement mortars to promote rapid strength development for early stripping of formwork, and to assist in resisting of frost attack, ideal for cold winter working conditions.

### Advantages

- Allows continuous placing of concrete at low temperatures Gives anti-frost protection by allowing water reducing thus accelerating cement hydration process.
- Allows earlier release from precast moulds
- Allows reduction in mixing water with no loss of workability
- Increased density and compressive strength

### Standards compliance

CONFLO BOND-A complies with BS5075 part1: 1974 and ASTM C494-1971

### Description

CONFLO BOND-A supplied as a brown liquid, is based on selected stabilised sugar reduced gnosulphonates blended with calcium chloride, which when added to cementitious mixes, accelerates hydration and enables the water content to perform more efficiently In situations where there is embedded steel or where high alumina cement is used, or where steam curing is employed. CONFLO BOND-A chloride free accelerating concrete admixture.

### Properties

Appearance :Brown liquid

Specific gravity :Typically 1.31

Chloride content :20% by weight

Air entrainment :Typically less than 1% additional air is entrained at normal dosages Calcium Chloride content Chloride ion concentration in CONFLO BOND-A is 20% by weight. At the maximum recommended addition rate of 3.4litre/100kg cement, this represents 1.4% of anhydrous calcium chloride (0.9% chloride ion by weight of cement).In unreinforced concrete containing no embedded steel,

CONFLO BOND-A at the recommended dosage rates may be safely used.

### Instructions for use

#### Mix design

Where the main requirement is to improve strengths, initial trials should be made with normal concrete mix designs. The addition of the admixture will allow the removal of water from the mix whilst maintaining workability. After initial trials, minor modifications to the overall mix design may be made to optimize performance.

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#### Typical dosage

Optimum dosage of CONFLO BOND-A to meet specific requirements should always be determined by trial mixes using the material and conditions that will be experienced in use.

The following addition rates are recommended as a starting point.

Temperatures above 4°C

Concrete and mortars : 1.7 litres/100kg cement

Temperatures from 4°C to -2°C

Concrete and mortars : 2.6 litres/100kg cement

Temperatures below -2°C

Concrete and mortars : 3.4 litres / 100kg cement

### Supply

CONFLO BOND-A is available in 210 litre drum or bulk supply.

### Limitations

CONFLO BOND-A should not be used where there is embedded or prestressed steel, or with high alumina cement or sulphate resisting cement, or where steam curing is employed.

## Precautions

### Health and safety

Skin contact should be avoided as CONFLO BOND-A is slightly acidic.

Any splashes should be thoroughly washed with water. If eye contact occurs, irrigate immediately with copious quantities of clean water and seek medical advice.

### Fire

CONFLO BOND-A is water based and non-flammable.

### Storage

CONFLO BOND-A has a minimum shelf life of 12 months provided temperature is kept within the range of -2°C to 30°C.