



## ANTI-FREEZE RAPID SET

**5 LITRES 736**  
**25 LITRES 737**

### DESCRIPTION

ANTIFREEZE RAPID SET is liquid admixture for the acceleration of setting time of cement based mortar, concrete, screeding and render. Also provides frost protection in the wet mortar during the setting period, even in sub-zero temperatures. Contains calcium chloride.

### BENEFITS

- Faster finishing times even in cold weather.
- Provides frost protection down to -8°C in wet mortar.
- Optimises mould usage.

### AREAS OF USE

- Mortars (not metal reinforced)
- Floor screeds
- External/Internal cement based rendering
- Concrete (not structural)
- Suitable for use as an emergency repair plugging aid when mixed neat with cement.

### LIMITATIONS

- Do not use in mixes containing High Alumina Cement.
- Do not overdose.
- Do not mix with other additives in same gauging water.
- As the product contains calcium chloride, it is not suitable for use with structural concrete
- Do not use where brick ties are present. Use ZEROMIX C.F.F.
- Do not use weak mixes during cold weather.

### APPLICATION

Work should be carried out in accordance with the methods outlined in the Code of Practice BS5628 Part 3 for protection and use of mortars at low temperatures. In all cases, add to mix at an addition rate of 2.5 to 5 litres per 50kg cement depending on the degree of acceleration required. Note: remember to reduce required quantity of water accordingly. Alternatively, add to mixing drum at same time as water. All materials used must be free from ice and the temperature of the mix prior to placing not be less than 4°C. Concrete must be covered after placing until the minimum strength is obtained or until the temperature rises above freezing. Do not use with high aluminium cement.

The following are examples of modified mix designs.

**PLUGGING AID:** Mix neat with **fresh** ordinary Portland cement and use immediately.

### SCREEDING

General Concrete:

Mix design should be no weaker than 1:2:4  
2.5 to 5 litres per 50kg cement as detailed in table.

Granolithic Toppings:

Clean granolithic	
Chippings (3-6mm)	2 parts
Concrete sand	0.5 parts
Ordinary Portland cement	1 part
ANTIFREEZE & RAPID SET:	2.5 - 5 litres/50kg cement.

Refer to BS8204 Part 2 and BS8000 Part 9 for relevant guidelines on installation and mix designs.

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# TECHNICAL DATA



## **SPECIFIC DATA**

APPEARANCE:	Clear green liquid
ACTIVE CONTENT:	20 -30% Calcium Chloride w/v
S.G (20°C):	1.2 approximately
CHLORIDE ION CONTENT:	approx 0.8% at 5 litres per 50kg cement.
Ph:	9 - 11.
STORAGE:	Store at moderate temperatures. Will reconstitute by stirring after freezing.
SHELF LIFE:	Min. 2 years when stored according to manufacturers instructions.
DOSAGE	Ambient temperatures down to -4°C: (as frostproofer) 2.5 litres per 50kg cement. Ambient temperatures down to -8°C: 2.5 litres to 5 litres per 50kg cement.

## **HEALTH AND SAFETY**

Irritating to eyes and skin. Do not eat or drink during use. Avoid contact with skin, clothes and eyes. Remove splashes with soap and water. If product enters eyes, rinse immediately with cold water and seek medical attention. If ingested, give plenty of water to drink and seek medical attention. Keep away from children and animals. Material Safety Data Sheet available on request.

## **STORAGE**

Store in original unopened containers between 5°C and 40°C.

## **SHELF LIFE**

Minimum two years in original unopened containers.