

# Supaflo Special

High range water reducing admixture with workability retention properties



## Description

Supaflo Special is formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used to improve workability, to increase ultimate strengths or to facilitate a reduction in the cement content while sustaining mix properties.

Supaflo Special has strong workability retention which helps in long distance and hot weather concrete deliveries, and is particularly suitable for ready-mix concrete.

## Applications

- ▲ Long distance and hot weather concrete deliveries.
- ▲ Where high workability retention and retardation are of prime importance.
- ▲ To produce high quality concrete of improved durability and water tightness.

## Advantages

- ▲ Higher strength with same cement content.
- ▲ Minimising segregation problems by improving cohesion.
- ▲ Excellent slump retention properties.
- ▲ Improved workability reduces placing and compaction problems.
- ▲ Cold joints can be avoided by extending initial and final concrete setting time.
- ▲ Saving cement without affecting strength specifications.
- ▲ More durable concrete by considerable reduction in permeability.

## Compatibility

Supaflo Special can be used with all types of Portland cement and cement replacement materials. Supaflo Special is compatible with other DCP admixtures used in the same concrete mix.

If more than one type of admixture will be used in the concrete mix, they must be dispensed to the concrete separately.

## Standards

Supaflo Special complies with ASTM C494, Type G and IS 9103:1999.

### Technical Properties:

Colour:	Brown liquid
Specific gravity:	1.20 ± 0.02 @ 27°C
Chloride content: BS 5075 & IS 456	Nil
Air entrainment:	Typically less than 1% additional air is entrained above control mix at normal dosages

## Method of Use

Supaflo Special should be added to the concrete with the mixing water to achieve optimum performance.

An automatic dispenser should be used to dispense the correct quantity of Supaflo Special to the concrete mix.

## Dosage

The guidance dosage is between 0.4 – 1.6 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

## Effects of Over Dosage

Supaflo Special over dosage will cause the following:

- Increase in retardation.
- Increase in workability.

Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

## Setting Time

Although the setting time is dependent on the dosage of Supaflo Special, the following factors should be considered:

- Retardation is increased with a lower level of tri-calcium in the cement.
- Lower temperatures will delay the setting time.
- SRC cement gives higher retardation level than ordinary cement.

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- iv. Using more than one type of admixture in the same concrete mix could affect the setting time.
- v. Retardation level is increased when cement replacement materials are used in the concrete mix.

## Cleaning

Supaflo Special can be washed immediately by cold water.

## Packaging

Supaflo Special is available in 250 kg and 1000 litre bulks supply.

## Storage

Supaflo Special has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## Cautions

### Health and Safety

Supaflo Special is not classified as hazardous material. Supaflo Special should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

For further information refer to the Material Safety Data Sheet.

### Fire

Supaflo Special is nonflammable.

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- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

#### Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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