

# Supaflo Special 6212

High performance superplasticiser for high performance concrete



## Description

Supaflo Special 6212 is superplasticising admixture 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.

## Applications

- ▲ Low water cement ratio, high strength concrete.
- ▲ To accelerate early strength development.
- ▲ To produce high quality concrete of improved durability and water tightness.
- ▲ Precast concrete.

## Advantages

- ▲ High strength increase with same cement content.
- ▲ Earlier formwork stripping by increasing early strength.
- ▲ Improved workability, reduces placing and compaction problems.
- ▲ Cement saving without affecting concrete strength and workability.
- ▲ Minimising segregation and bleeding problems by improving cohesion.
- ▲ More durable concrete as a result of reduction in permeability and lower water to cement ratio.

## Compatibility

Supaflo Special 6212 can be used with all types of Portland cement and cement replacement materials. Supaflo Special 6212 is compatible with other DCP admixtures used in the same concrete mix.

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

## Standards

Supaflo Special 6212 complies with IS 9103:1999 and ASTM C494, Type A and F.

## Method of Use

Supaflo Special 6212 should be added to the concrete with the mixing water to achieve optimum performance.

### Technical Properties @ 25°C:

Colour:	Brown liquid
Dry material content:	35 ± 2.5%
Specific gravity:	1.18 ± 0.02
Chloride content: IS 456 & BS 5075	Nil
pH:	7 - 8
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

An automatic dispenser should be used to dispense the correct quantity of Supaflo Special 6212 to the concrete mix.

## Dosage

The guidance dosage of Supaflo Special 6212 is 0.4 - 1.2 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of Supaflo Special 6212 to meet the performance requirements by using the materials and conditions in actual use.

## Effects of Over Dosage

Over dosing of Supaflo Special 6212 will cause the following:

- Significant 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 6212, the following factors should be considered:

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- i. Retardation is increased with lower levels of tri-calcium in the cement.
- ii. Lower temperatures will delay the setting time.
- iii. SRC cement gives higher retardation levels than ordinary cement.
- 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 6212 can be washed with fresh cold water.

## Packaging

Supaflo Special 6212 is available in 250 kg carbuoys and drums supply.

## Storage

Supaflo Special 6212 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 6212 is not classified as hazardous material. Supaflo Special 6212 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 6212 is nonflammable.

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- ▲ Concrete admixtures.
- ▲ 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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