

# Supaflo Special 13

High range concrete superplasticiser admixture



## DESCRIPTION

Supaflo Special 13 is a high performance liquid concrete 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 and to increase ultimate strengths by the very high levels of water reduction in the concrete mix.

## APPLICATIONS

- » To increase workability retention of fresh concrete.
- » To provide increased ultimate strength by reducing water demand in concrete mixes.
- » To produce high quality concrete of improved durability by reducing permeability.

## ADVANTAGES

- » Higher strength with same cement content.
- » Minimising segregation problems by improving cohesion.
- » Improved workability reduces placing and compaction problems.
- » Cement saving without affecting strength.
- » More durable concrete as a result of reduction in permeability and lower water to cement ratio.
- » Chloride free.

## COMPATIBILITY

Supaflo Special 13 is suitable to use with all types of Portland cement and cement replacement materials. Supaflo Special 13 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 13 complies with ASTM C494, Type B, D & G and IS 9103, depending on dosage used.

## METHOD OF USE

Supaflo Special 13 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 13 to the concrete mix.

## TECHNICAL PROPERTIES @ 25°C:

Colour:	Brown liquid
Freezing point:	≈ -2°C
Specific gravity:	1.21 ± 0.02
Chloride content: BS 5075	Nil
Air entrainment: IS 9103	Typically less than 1.5% additional air is entrained above control mix at normal dosages

## DOSAGE

The recommended dosage of Supaflo Special 13 is 0.80 - 2.00 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 13 to meet the performance requirements by using the materials and conditions in actual use.

## EFFECTS OF OVER DOSAGE

Overdosage of Supaflo Special 13 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 13, the following factors should be considered:

- Retardation is increased with lower levels of tri-calcium in the cement.
- Lower temperatures will delay the setting time.
- SRC cement gives higher retardation level than ordinary cement.
- Using more than one type of admixture in the same concrete mix could affect the setting time.
- Retardation level is increased when cement replacement materials are used in the concrete mix.

## Don Construction Chemicals India Private Limited

Kaveripettai, Thiruvallur Dist., Chennai, Tamil Nadu  
RIICO Industrial Area, Manda Chomu, Jaipur  
India

[info.india@dcp-int.com](mailto:info.india@dcp-int.com); [marketing.india@dcp-int.com](mailto:marketing.india@dcp-int.com)  
[www.dcp-int.com](http://www.dcp-int.com)



# Supaflo Special 13

## CLEANING

Clean Supaflo Special 13 with fresh cold water.

## PACKAGING

Supaflo Special 13 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

## STORAGE

Supaflo Special 13 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, contact DCP Technical Department for advice.

## CAUTIONS

### HEALTH AND SAFETY

Supaflo Special 13 is not classified as a hazardous material. Supaflo Special 13 should not come into contact with skin and eyes.

In case of contact with eyes, immediately flush with plenty of water and seek medical attention.

For further information, refer to the Material Safety Data Sheet.

## FIRE

Supaflo Special 13 is nonflammable.

## MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

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

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[info.india@dcp-int.com](mailto:info.india@dcp-int.com); [marketing.india@dcp-int.com](mailto:marketing.india@dcp-int.com)

[www.dcp-int.com](http://www.dcp-int.com)

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