

Supaflo 3

High range water reducing superplasticiser



Description

Supaflo 3 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 3 can be used with all types of Portland cement and cement replacement materials. Supaflo 3 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 3 complies with IS 9103:2007, Revision 1, ASTM C494, Type G and BS 5075, Part 3.

Method of Use

Supaflo 3 should be added to the concrete with the mixing water to achieve optimum performance.

Technical Properties:

Colour:	Brown liquid
Specific gravity: IS 9103:2007, Rev. 1	1.185 ± 0.02
Chloride content: IS 456:2000 & BS 5075	Nil
Air entrainment:	Typically less than 1% additional air is entrained above control mix at normal dosages

An automatic dispenser should be used to dispense the correct quantity of Supaflo 3 to the concrete mix.

Dosage

The guidance dosage of Supaflo 3 is 0.50 - 1.40 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Effects of Over Dosage

Over dosing of Supaflo 3 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 3, 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.

Supaflo 3

Cleaning

Supaflo 3 can be washed with fresh cold water.

Packaging

Supaflo 3 is available in 20, 50 and 230 kg drums and bulks supply.

Storage

Supaflo 3 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 3 is not classified as hazardous material. Supaflo 3 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 3 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.

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.

www.dcp-int.com

