Supaflo PC550M

High performance concrete superplasticizer

Description

Supaflo PC550M is a high performance super plasticising admixture based on polycarboxylic ether polymers with long chains specially designed to enable the watercontent of the concrete to perform more effectively and viscosity enhancer polymer specially designed to increase mix cohesion.

This effect can be used in high strength concrete and flowable concrete mixes, to achieve highest concrete durability and performance.

Applications

- High strength and high performance concrete.
- Structures with congested reinforcement.
- Pre-cast concrete.
- Improved cohesion allow for use in mass concrete pours and piling.
- Self compacting concrete.

Advantages

- Optimises cement utilization.
- High density and impermeable concrete through very high water reduction.
- Improves shrinkage and creep behaviors.
- Minimises segregation and bleeding problems by improving cohesion.
- Higher early and ultimate compressive strengths.
- Increases durability and resistance to aggressive atmospheric conditions thorough reduced permeability.

Compatibility

Supaflo PC550M can be used with all types of Portland cement and cement replacement materials. Supaflo PC550M should not be used in conjunction with other admixtures unless DCP technical department approval is obtained.

Standards

Supaflo PC550M complies with IS 9103:1999 and ASTM C494, Type A and G.

Technical Properties @ 25°C:	
Colour:	Yellowish to brownish liquid
Freezing point:	≈ -1°C
Specific gravity:	1.07 ± 0.02
pH:	6 - 7
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

Method of Use

Supaflo PC550M 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 PC550M to the concrete mix.

Dosage

The guidance dosage of Supaflo PC550M is 0.4 - 2.2 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 PC550M to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Over dosing of Supaflo PC550M 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.

Cleaning

Supaflo PC550M can be washed with fresh cold water.

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Packaging

Supaflo PC550M is available in 20 kg pails, 225 kg drums and 1000 litre bulks supply.

Storage

Supaflo PC550M 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 PC550M is not classified as hazardous material. Supaflo PC550M 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 PC550M 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.