

# PC Fluid 900



High range water reducing PCE based superplasticizer for high performance concrete

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## Product Overview

PC Fluid 900 is a PCE based admixture designed to suit different grades of site batched concrete with high performance and durability. It is a chloride free admixture with very low alkali.

## Areas of applications

1. All columns, beams and piers
2. Retaining walls and foundations
3. At all site mixing applications such as long distance concrete pumping, RMCs, etc.

## Properties

1. PC Fluid 900 exhibits high performance and durability when mixed with concrete.
2. Improves workability for longer periods..
3. It can be used with mixes containing all kinds of fine and coarse aggregates.
4. It increases high early strength.
5. It minimizes water content for given workability.
6. It imparts higher ultimate strength to the concrete.
7. It imparts improved resistance to carbonation and other harsh atmospheric conditions to concrete.

## Compatibility

1. PC Fluid 900 can be used with all types of portland cements and pozzolana replacement materials.
2. It is not recommended to mix PC Fluid 900 with dry cement.

3. It must not be used in conjunction with any other admixture unless prior approval is received from Mcrete Technical Services Department.

## Guidelines for Usage

Correct quantity of admixture has to be dispensed to the concrete mix when at batching plant. At first add 60-80% of measured water to wet the concrete and aggregate. Then add measured quantity of PC Fluid 900 with rest 20-40% of water to achieve desired consistency and mix further for 2-3 mins to get uniformity.

## Dosage and Measures

The guided dosage of PC Fluid 900 is 0.4% - 1.5% of cementitious materials in the mix (irrespective of the type of aggregates used). Representative trials should be conducted to determine the optimum dosage of PC Fluid 900 to meet the performance requirements by using the materials and conditions in actual use.

Overdose might cause

1. Significant increase in retardation or delay in setting.
2. Increase in air entrapment.
3. Segregation of mix.
4. Reduced permeability.

## Workability

PC Fluid 900 ensures that the rheoplastic nature of concrete remains workable depending upon

the dosage, w/c ratio, ambient temperature and site actual material condition. The workability loss depends not only on temperature, but also the type of cement, the nature of aggregates and the method of transport and placing. It is strongly recommended that concrete should be properly placed & cured particularly in hot and dry climates.

## Packings available

PC Fluid 900 is available in 225 kg HDPE drums.

## Storage and Shelf life

PC Fluid 900 has 12 months shelf life when stored in original, cool, dry and unopened packs.

## Safety Measures

1. Clean tools and equipment immediately after the use. Reseal the containers after use.
2. Use proper safety equipments while mixing e.g. use of safety coats, safety goggles, gloves etc. Any eye contamination should be washed immediately with clean water and immediate medical attention sought.

For further information related to application and safety precautions, please contact Mcrete technical representative.

## Technical data

Aspect	Colourless to pale yellow to light brown liquid.
Mixed Density	1.00-1.10 g/cc
pH	>6
Chloride content	<0.1%
Test Certifications	IS 9103:1999 ASTM C494 Type G EN 934-2 T3.1/3.2 IS 2645:2003

For further clarifications Please contact on below address

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