

# CAPLAST SUPER FLOW (P)

A HIGH RANGE WATER REDUCING  
AND WORKABILITY RETAINING SUPER PLASTICIZER

## DESCRIPTION

CAPLAST SUPER FLOW (P) is ready to use, high range, prolonged workability retaining super plasticizer. Ideally suited for tropical conditions.

CAPLAST SUPER FLOW (P) can be used in powder form as well in liquid form by preparing 42.0 % solution in water .

## FEATURES

CAPLAST SUPER FLOW (P) acts as a dispersing agent, by breaking down the agglomerated cement particles and enable the water in the mix to perform more effectively.

CAPLAST SUPER FLOW (P) delays the initial hydration of cement and the high reduction of water promotes high early and ultimate strength.

## STANDARDS

CAPLAST SUPER FLOW (P) complies with the requirement specified in ASTM C-494 type G.

## USES

- To produce self leveling, high early strength concrete with low water content.
- Maintains prolonged workability at high temperatures.
- For General purpose structural concrete where a good surface finishes is required.

## ADVANTAGES

- Effective over wide range of cement contents and W/C Ratio.
- Improves workability and cohesion.
- Facilitates slip forming under difficult conditions.
- Self compacting and self leveling properties –speed up placing of concrete and construction works.
- Reduces bleeding and segregation.
- Enables production of Economical, dense and impermeable concrete.
- Minimum thermal peak.

## TYPICAL PROPERTIES

### Appearance

Brown free flowing liquid

### Bulk Density

Approx. 450 kg /m<sup>3</sup>

### Solubility

Soluble in water

### Chloride Content

Nil to B.S 5075

### Toxicity

Non toxic

### Compatibility with cement

Compatible with all types of Portland, pozzolanic and blast furnace cements, can also be used with mix designs containing fly ash, micro silica and other cement replacement materials.

### Compatibility with other admixtures

Compatible with other Ahlia admixtures, provided they are added separately to the mix.

### Shelf Life.

At least 24 months if stored in tightly closed containers at normal ambient temperature.

## DIRECTIONS FOR USE

CAPLAST SUPER FLOW (P) can be used in powder form, or as liquid by preparing 42 % solution in water

### Dosage:

Field trials should be conducted to determine the optimum dosage of CAPLAST SUPER FLOW (P)

Or liquid with actual concrete mix and job conditions. Rate of addition can be varied to get desired results

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## As a general guide-

### For Powder

A dosage range of 0.168 to 0.252 kg per 50 kg of cement to regulate plasticizing effect

0.336 to 0.42 kg per 50 kg cement to produce flowing, self compacting, prolonged workability retaining concrete with high water reduction

### For liquid

0.4 to 0.6 liter per 50 kg cement to regulate plasticizing effect 0.8 to 1.0 liters per 50 kg of cement to produce flowing, self-compacting, prolonged workability retaining concrete with high water reduction.

### Dispensing

Powder to be added in moist aggregates before addition of cement

Liquid admixture – best by dispenser into the gauging water or directly with water in mixer .

## Limitations

CAPLAST SUPER FLOW (P) must not be added directly to dry cement while mixing concrete.

## Overdosing

An overdose up to double the recommended dose will result in following.

- Retardation of Initial and final set.
- Slight Increase in air entrainment.
- Increase in workability.
- Provided if properly cured, the ultimate strength of the concrete will not be adversely affected.

## SAFETY PRECAUTIONS

CAPLAST SUPER FLOW (P) is nontoxic and nonflammable. Splashes to eyes and skin should be washed off at once with water . It is advisable to use goggles and gloves while handling CAPLAST SUPER FLOW (P)

## PACKAGING

CAPLAST SUPER FLOW (P) is supplied in 10 kg bags and in other packing with arrangement.

## STORAGE

Preferably store in sealed conventional containers, protected from extreme weather condition

### TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

**Note :** The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

As all Ahlia Technical Data Sheets are updated on a regular basis, it is the user responsibility to collect most recent issue.