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 /m³

Solubility
Soluble in water

Chloride Content
Nil to B.S 5075

Toxicity
Non toxic

Compatibility with cement
Compatible with all types of Portland, pozollanic 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
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.