CAPLAST SUPER-M
A HIGH RANGE WATER REDUCING SUPER PLASTICIZER

DESCRIPTION

CAPLAST SUPER-M is a melamine formaldehyde resin based super plasticizing concrete admixture which produces high workability self leveling concrete that requires little or almost no vibration.

FEATURES

CAPLAST SUPER-M has a powerful plasticizing effect on concrete without lowering the surface tension. With water it forms a lubricating film, which reduces the friction between the solid particles. This increases the dispersion that ensures better distribution and thus improved utilization of cement.

STANDARDS

CAPLAST SUPER-M complies with ASTM- C 494 type F.

USES

CAPLAST SUPER-M can be used for obtaining:
- High strength concrete.
- Self leveling, self-compacting concrete.
- Special concrete with :
  - High frost resistance.
  - High abrasion resistance.
  - Low permeability.
  - Excellent pumpability or flowablility.

ADVANTAGES

- Increased concrete workability at constant or even improved concrete strengths.
- Improved compacity and hardness.
- High strength mixes with reduced water/cement ratios.
- Due to non-retarding nature of admixture, concrete setting and formwork stripping time is unaffected.
- Flowing concrete simplifies the placing problem. Hence manpower and plant can be effectively used.
- Reduces segregation and bleeding.

TYPICAL PROPERTIES

Appearance:
Colorless to pale yellow liquid.
Specific gravity: 1.14 at 25 0C.
Chloride content: Nil to BS 5075.
Air entrainment: Complies with the requirements of ASTM-C 494 clause 12.2.1.
Toxicity: Non toxic.

Compatibility with cement:
Compatible with all types of portland, pozzolonic and blast furnace cements.
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 temperatures.

DIRECTIONS FOR USE

CAPLAST SUPER-M is ready to use. It should be added to concrete mix during the mixing cycle at the same time along with water or as an alternative it should be added to a normal concrete mix, a few minutes before the pour is made. In the later case mixing cycles of 2 to 3 minutes should be carried out.

Dosage:
1.5 ltrs to 3.0 liters per 100 kg of cement. The performance of CAPLAST SUPER-M is best assessed after preliminary trials on site using the actual mix design under consideration to determine the optimum dosage and effect on concrete properties.

Dispensing:
Best by dispenser into the gauging water, or directly with water into the mixer .

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OVERDOSING

An overdose of double the recommended dose of **CAPLAST SUPER-M** can result in slight set retardation. Anyhow the ultimate strength and properties of the concrete will not be impaired, if properly cured.

SAFETY PRECAUTIONS

CAPLAST SUPER-M is non-toxic and non-flammable. Splashes to eyes and skin should be washed off immediately with abundant water. It is advisable to use goggles and gloves while handling **CAPLAST SUPER-M**.

PACKAGING

CAPLAST SUPER-M is supplied in bulk, 205 liter barrels and 20 liter pails.

STORAGE

Preferably store in sealed conventional containers, protected from extreme weather conditions.

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.

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