DESCRIPTION

CAPLAST R SPECIAL-(P) is water reducing, plasticizing and retarding concrete admixture, beneficial in maintaining workability especially in high ambient temperatures. CAPLAST R SPECIAL-(P) can be used in powder as well in liquid form by preparing 38% solution in water.

FEATURES

CAPLAST R SPECIAL-(P) increases the dispersion of cement particles by combining the effects of a powerful plasticizing, de-flocculating and retarder blend. It enhances the dispersion of cement particles and wets them more thoroughly.

STNADARDS

CAPLAST R SPECIAL-(P) complies with ASTM C 494 type D.

USES

CAPLAST R SPECIAL-(P) can be used:
- To increase the setting time of concrete and maintain its workability, especially in hot weather concreting, where delay to initial and final settings are important in addition to the maintenance of maximum slump.
- To reduce permeability, and thereby minimizing the effects of ground water salts on concrete and steel.
- To increase concrete strength at unchanged or improved workability.
- To increase cement workability at unchanged or improved strength.
- To reduce cement content without loss of workability, and ultimate strength.

ADVANTAGES

- Strength can be improved by more than 20% through the reduction in the w/c ratio.
- By using CAPLAST R SPECIAL-(P), concrete workability can be improved. Slump will be increased by the addition of CAPLAST R SPECIAL-(P) without reduction in water content. Concrete can be placed and compacted more easily without reduction in strength.
- By using CAPLAST R SPECIAL-(P), cement consumption can be reduced. Up to 10% of cement can be saved by taking advantage of water reduction, and still maintaining the desired concrete quality with unchanged workability.
- CAPLAST R SPECIAL-(P) increases the placing time, hence larger batches can be achieved and placed. Even at higher ambient temperatures, concrete can be conveyed over greater distances without risk of setting.
- Improved surface finish, trowelability and pumpability of concrete.

TYPICAL PROPERTIES

Appearance:
Tan Brown free flowing product

Bulk Density
About 500 kg/m³

Chloride content:
Nil to BS 5075

Toxicity:
Non-toxic.

Compatibility with cement and pozzolans
Compatible with all types of cement, GGBS, Fly ash and other Cement replacement materials.

Compatibility with other admixtures:
Compatible with other Ahlia admixtures, provided they are added separately to the mix.
CAPLAST R SPECIAL-(P)
POWDER WATER REDUCING & RETARDING CONCRETE ADMIXTURE

Shelf life
At least 24 months if stored in unopened original packaging.

DIRECTIONS FOR USE
CAPLAST R SPECIAL-(P) can be used in powder form or as liquid form, by preparing a 38% solution by suitable blending equipment.

Dosage:
Trials should be carried out to determine the optimum dosage of CAPLAST R SPECIAL-(P) or liquid, taking into account the Relevant mix design, performance requirements and site conditions.

As a general guide,
For powder
Dosage range of 0.067 kg to 0.220 kg per 50 kg of cement is recommended as a starting point.

For liquid
Dosage Range of 0.14 to 0.45 liter per 50 kg cement is recommended as starting point.

Dosage outside recommended limit can be used by establishing the proper dosages on actual mix for required performance.

Dispensing:
Powder to be dispensed in moist aggregates
Before addition of sand and cement.

Liquid admixture - Best by dispenser into the gauging water or directly with water into the mixer.

LIMITATIONS
Overdosing:
An overdose of double the recommended dosage results in the following.
- Retardation of initial and final setting time.
- Increase in workability.
- Slight increase in air entrainment.

Provided if properly cured, the ultimate strength of concrete will not be adversely affected.

SAFETY PRECAUTIONS
CAPLAST R SPECIAL-(P) is nontoxic and non-flammable. Splashes to eyes should be washed immediately with abundant water. It is advisable to use goggles and gloves while handling CAPLAST R SPECIAL-(P).

PACKAGING
CAPLAST R SPECIAL-(P) is supplied in 10 kg bags and in other packing with arrangement.

STORAGE
Preferably store in sealed bags over pallets, 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.

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