

# CAPLAST-N

## A WATER REDUCING PLASTICIZER FOR CONCRETE

### DESCRIPTION

CAPLAST-N is a normal water reducing plasticizer for concrete mixes which improves the workability by reduction in water and improvement in ultimate compressive strength of concrete without effecting set retardation.

### FEATURES

CAPLAST-N functions as a normal water reducing plasticizer when added to concrete mixes, by getting absorbed into the cement surface which results in powerful de-flocculating action and more uniform dispersion of cement particles throughout the mix.

### STANDARDS

CAPLAST-N complies with the specifications of ASTM C-494 type A. And B.S 5075 Part1

### USES

- In pre-cast, ready mixed and site batched concrete manufacture.
- In pre-stressed concrete.
- In concrete brick and block manufacture.
- Wherever water reduction would be beneficial to increase impermeability.

### ADVANTAGES

- CAPLAST-N significantly improves workability thereby easy placing.
- Improves cohesive properties of concrete thereby reducing segregation and bleeding.
- Allows water reduction around 10% with same workability, thereby increasing strength, durability and impermeability.
- Economical mix designs can be achieved by reduction in cement.
- Improves surface finish, trowellability and pumpability.

### TYPICAL PROPERTIES

**Appearance:**

Deep brown clear liquid.

**Specific gravity:**

1.130 at 25°C.

**Chloride content:**

Nil to BS 5075 : 1982

**Air Entertainment:**

Complies with requirement of ASTM C-494 clause 12.2.1

**Shelf life:**

At least 18 months if stored in tightly closed containers at normal ambient temperature.

**Toxicity:**

Non toxic

**Compatibility:**

CAPLAST-N is compatible with all types of Portland cement including sulfate-resistant cement.

**Compatibility with other admixtures:**

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

### DIRECTIONS FOR USE

CAPLAST-N is supplied ready to use. It should be added to concrete mixes during mixing process preferably at the same time along with mix water.

**Dosage:**

Field trials should be conducted to determine the optimum dosage of CAPLAST-N with actual concrete mix and job conditions. A dosage rate of 0.15 to 0.50 ltrs per 50 kg of cement is recommended as a starting point. Higher dosage up to 0.6 liter per 50 kg of cement can be used depending on desired 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 dosage will result in the following:

- Retardation of initial set.
- Increase in workability.
- Increase of air entrainment.

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

### SAFETY PRECAUTIONS

CAPLAST-N is non-toxic and nonflammable. Splashes to eyes and skin should be washed off at once with abundant water. It is advisable to use goggles and gloves while handling CAPLAST-N.

### PACKAGING

CAPLAST-N is supplied in bulk (by arrangement), 205 liter barrels or 20 liter pails.

### STORAGE

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

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#### 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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