

CAC[®]-SETPLAST

Accelerating admixture to reduce setting time of concrete

CA C[®]-Setplast is the strong accelerating admixture which reduces setting time of concrete depends upon dosage and ambient temperature. It can be used to improve high early strength and reduce the de-shuttering time to increase construction speed.

AREA OF APPLICATION:

- Low temperature concrete
- Precast & Reinforced concrete
- In concrete brick & block manufacture
- Concrete pipes, brick laying mortars, etc.

Primary uses-

- Reduces setting time of the concrete depending on the dosage and ambient temperature.
- Helps to achieve high early strength, hence reduction in stripping time.
- Helps in reducing cement content for a required compressive strength.
- Reduces construction cost- no delay due to cold weather, use of OPC instead of Rapid Hardening Cement.

STANDARDS:

ASTM C 494 – Type C
IS 9103: 1999

METHOD OF APPLICATION:

Add 70-80% water to the concrete based on Mix Design by weight. The correct quantity of **CA C[®]- Setplast** should be measured with recommended dispenser and should be added to

the concrete with remaining mixing water. Allow to mix it for recommended mixing time. The addition of **CAC[®]-Setplast** to dry mixes or cement is not recommended.

DOSAGE:

As a starting point, a dosage range of 03 kg to 35 kg/m³, depending upon acceleration desired. Optimum dosage of **CAC[®]-Setplast** should be determined in trial mixes. Please consult CAC Pvt. Ltd. Technical staff for further information.

EFFECTS OF OVER-DOSAGE:

A severe over-dosage of **CAC[®]-Setplast** will result in the following:

- High acceleration in setting time
- Sudden loss in workability

Providing concrete is properly cured, the ultimate concrete strength will not be affected.

COMPATIBILITY:

CAC[®]-Setplast is compatible with all types of cements and Integral Waterproofing Compound which complies with IS 2645- 1978. If more than one admixture is to be used in concrete, they must be dispensed separately.

WORKABILITY:

CAC[®]-Setplast ensures that concrete remains workable for short period depends on dosage. Workability loss is dependent on temperature, type of cement, the method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot and dry climates.

PACKAGING:

CAC®-Setplast is available in 245kg drum.

TECHNICAL PROPERTIES:

Appearance	Colourless to Yellowish Liquid
Specific Gravity @25 ⁰ C	1.110 ± 0.020
Chloride content	Nil

The shelf life of the product is 1 year when stored as recommended.

STORAGE:

CAC®-Setplast must be stored at above 5⁰C temperature. If the product has frozen, thaw at room temperature and agitate to completely reconstitute it in original form. Store under cover, protect it from direct sunlight. Failure to comply with recommended storage condition may result in premature deterioration of the product or packaging.

SAFETY PRECAUTIONS:

CAC®-Setplast is a non-toxic and nonflammable. When in contact with the skin, it should be washed with cold water.

Disclaimer:

The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests and take trials to ensure on suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of the other materials used and on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The Company does not assume any liability or any consequential damage for unsatisfactory results, arising from the use of our products.