

# CAC-Retardplast

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## Retarding plasticiser for concrete

**CAC-Retardplast** is the strong retarder and plasticiser which deflocculates and disperses the cement particles whilst delaying the hydration process, thereby retarding the initial and final set. It can be used to improve workability without increasing water content or to allow reductions in free water content in conjunction with high range water reducing admixtures.

### AREA OF APPLICATION:

- Ready Mix Concrete
- Precast concrete
- In hot climates to extend workability & control setting time of concrete
- White cement concrete

### Primary uses-

- Enables controlled extension of initial set.
- Highly effective in high cement, low water content mixes where its use enables concrete to be more workable without loss in strength, density and durability.
- To reduce water content
- The retarding action allows continuous concrete pours to be made, thus reducing the number of construction joints needed.
- The strength gain of concrete containing **CAC-Retardplast** is enhanced. After retardation of initial and final set, a more rapid hardening of concrete occurs, and the effect of stripping time is negligible.

### STANDARDS:

ASTM C 494 – Type B and D

### METHOD OF APPLICATION:

Add 70-80% water to the concrete based on Mix Design by weight. The correct quantity of **CAC-Retardplast** 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-Retardplast** to dry mixes or cement is not recommended.

### DOSAGE:

As a starting point, a dosage range of 0.05kg to 0.8kg per 100kg of cement is recommended. Optimum dosage of **CAC-Retardplast** 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-Retardplast** will result in the following:

- Increase in retardation of setting time
- Increase in workability

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

### COMPATIBILITY:

**CAC-Retardplast** is compatible with all types of Portland cements including sulphate resisting cement. If more than one admixture is to be used in concrete, they must be dispensed separately.

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## PACKAGING:

**CAC-Retardplast** is available in 260kg drum.

## TECHNICAL PROPERTIES:

Appearance	Pale straw coloured liquid
Specific Gravity @30°C	1.150 ± 0.020
Chloride content	Maximum 0.2%
pH	Minimum 6

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

## STORAGE:

**CAC-Retardplast** must be stored at above 5°C 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-Retardplast** is a non-toxic and non-flammable. 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.

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**Concrete Additives & Chemicals Pvt. Ltd.**

Plot No.-W/11, TTC Industrial Area, MIDC,  
Pawane, Navi Mumbai-400705.

Tel: +91-22-27681365 / 27632083, Fax: +91-22-27686787

Website: [www.cac-admixtures.com](http://www.cac-admixtures.com)



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