



ISO 9001:2000

CICO PLAST-R

Retarding Water Reducing Admixture and Concrete Plasticiser

DESCRIPTION : **CICO PLAST-R** is a powerful set retarder and plasticiser based on carefully selected Hydroxy Carboxylate salt and other high molecular weight polymers. This has high plasticising effect and delayed initial set to avoid cold joints in case of long span concreting operation like bridge constructions, mass concrete, piling etc. **CICO PLAST-R** conforms to ASTM C-494D IS 9103-1999.

USES : **CICO PLAST-R** can be used as a set retarding aid to avoid cold joint during mass concreting operation like dam construction, long span slab concrete, pilings, ready mixed concrete, prestressed concrete work, diaphragm walls.

ADVANTAGES :

- The addition of **CICO PLAST-R** to the concrete mix the following properties are improved in the fresh concrete as well as in hardened concrete.
 - * Retention of workability is highly improved in the required workability time span.
 - * Avoiding construction joint by means of long but defined retardation capacity.
 - * The formation of micro cracks are minimised by virtue of uniform dissipation of heat of hydration.
 - * Improving cohesiveness of concrete to enhance the efficiency of a concrete pump.
 - * Higher cohesiveness and flexural strength.
 - * Lower shrinkage cracks.
 - * Lower creep.
 - * Provide more durable structures.

PROPERTIES AND TECHNICAL DATA

Form : Liquid
Colour : Brown
Specific Gravity : 1.19 ± 0.02
Chloride content : Nil
pH value : 7 to 8
Toxicity : Non-toxic

COMPATIBILITY : Can be used with all types of Portland cement, slag cement, pozzolana cement including sulphate resisting cement.

CONSISTENCY : **CICO PLAST-R** is formulated from carefully selected raw materials and is manufactured under controlled conditions to give a consistent product.

HANDLING : **CICO PLAST-R** is formulated from chemicals which present no fire or health hazards.

SHELF LIFE : If stored in unopened containers at normal ambient temperatures, a shelf life of approximately 12 months could be expected.

- METHOD OF USE** : **CICO PLAST-R** is supplied ready for use. For maximum dispersion throughout the mix measured quantity of **CICO PLAST-R** should be directly added into mixer at the same time as the mixing water. On no account should it be added to the dry cement. To achieve the best results, the mixer alongwith material should be rotated for atleast 2 - 3 minutes.
- RATE OF ADDITION** : The optimum dosage should be determined by site trials with the particular concrete mix. As a guide the rate of addition is generally in range of 100ml to 500 ml per 50 kg cement depending upon the degree of retardation desired.
- PACKING** : 20 & 200 Ltr/ 240 Kg drum/barrel
- PRODUCT INFORMATION** : Although the basic formulation of our products generally remains unchanged production refinements arising from continuing research and evaluation program may occasionally results in marginal changes in properties.

IMPORTANT: Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

TECHNICAL SERVICE

- * **CICO** maintains a technical division with highly qualified Technical Personnel to investigate and advise on subjects related to concrete and the construction industry. The Division will advice on the correct use and selection of right products at the right place.
- * **CICO** undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures
- * **CICO** undertakes jobs as a package for total waterproofing system with guarantee

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