

## CICO PLAST-A

### Rapid Hardening cum Water Reducing Admixture for Plain Cement Concrete

**CICO PLAST-A** is a liquid concrete admixture used as a concrete set accelerating and plasticising agent complying with **ASTM C-494 Type E and IS:9103-1999**.

#### USES

The use of **CICO PLAST-A** accelerates the setting and hardening of concrete mix, thereby achieving higher early strength with all the resultant advantages of speeding up the job. This accelerating property of **CICO PLAST-A** can be utilized in many ways, all of which can be shown to save time and money.

The benefit to be derived from the use of **CICO PLAST-A** is that of reducing the water content of the concrete or mortar without any loss of workability. This improves the general properties of the mix, reduces the risk of segregation, and increases the density and the compressive strength thereby making the concrete highly impervious and more durable.

For working in very low ambient temperatures the incorporation of **CICO PLAST-A** provides the means to continue the placing of concrete. As an anti-frost, **CICO PLAST-A** offers protection in two ways firstly, by reducing the water content, which is vulnerable to frost, secondly, by the ingredients which permit the hydration of the cement to continue as it would at normal temperature by heat evolution.

#### ADVANTAGES

In all types of plain pre-cast concrete work, where earlier release of moulds and handling

of units is essential for economical production, **CICO PLAST-A** is invaluable.

#### FLOOR, ROADS, RUNWAYS, Etc

In granolithic floors, road, runways, hard-standings, paving etc. **CICO PLAST-A** allows to occupy the areas in the shortest possible time after laying. Where accelerated hardening of granolithic floors is required, care must be taken that the setting/shrinkage is kept to a minimum level. **CICO PLAST-A** enables fully workable granolithic mix to be produced with lower water/cement ratio thereby reduces the setting/shrinkage factor and the risk of lifting and/or cracking of the topping. Additionally, the improved cohesion of the mix enables a smooth, hard wearing surface to be achieved without the production of excessive laitance.

#### METHOD OF USE

**CICO PLAST-A** is supplied ready for use and should be added to the mixing water. It should not be added neat to the dry cement. Normal mixing time is about 2-3 minutes and no extension of mixing time is required.

#### RATE OF ADDITION

This varies from 1.0 -1.5 litres per 50 kg of cement depending upon the amount of acceleration of hardening required and on the ambient conditions. The exact dosage should be determined by site trials. Normal acceleration of hardening, for emergency repair and earlier from releases the dosage of **CICO PLAST-A** should be approximately 1 litre per 50 kg cement.

**HANDLING**

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

**PACKAGING**

**CICO PLAST-A** is available in 20 Kg and 250 kg HDPE plastic drums.

**CONSISTENCY**

**CICO PLAST-A** is formulated from fully selected raw materials and is manufactured under control conditions to give a consistent product.

**Important Note:**

***CICO PLAST –A should not be recommended for reinforcement concrete (RCC).***

**TECHNICAL DATA**

|                         |   |
|-------------------------|---|
| <b>Form</b>             | Liquid  |
| <b>Colour</b>           | Dark brown  |
| <b>Specific Gravity</b> | 1.28 ± 0.02   |
| <b>pH Value</b>         | >6  |
| <b>Toxicity</b>         | Non-toxic   |
| <b>Shelf life</b>       | 24 months.  |
| <b>Compatibility</b>    | Can be used with all types of Portland cement, slag cement, pozzolana cement including sulphate-resisting cement. |

**Important Note:**

All CICO products are sold in the market after strict Quality Control in line of ISO 9001 and guaranteed against any manufacturing defect. Although the basic formulation of Company's products generally remains unchanged, production refinements arising from continuing research and evaluation program may occasionally result in marginal changes in properties. CICO aspires to ensure that any recommendation, advice, test data, specification, method statement and other information given in this product datasheet is accurate and best of company's knowledge. Since, the company (CICO TECHNOLOGIES LTD) has no control over the selection of its product, applicators, application methodology, how and where it is applied, therefore, the company cannot accept any liability directly or indirectly arising from the use of its product. It is important to any customer, user or specifier satisfies him / herself that the product is suitable for the intended purpose including health, safety and environmental aspect. Unless or otherwise agreed in writing, all products of the company are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. All customers, users, specifiers should ensure that they examine the suitability of the product with company's latest product data sheet.

**CICO TECHNOLOGIES LIMITED**

Corp. Office: C-44/2, 1<sup>st</sup> & 2<sup>nd</sup> Floor, Okhla Industrial Area,  
Phase –II, New Delhi-110 020  
Tel. No: 91-11-4050 9400, Fax: 91-11-4050 9413  
E-Mail: [cicotech@cicogroup.com](mailto:cicotech@cicogroup.com)  
Web Site: [www.cicogroup.com](http://www.cicogroup.com)



ISO 9001:2008  
FM 54275

CTL/07-14/01