

CICO PLAST SUPER-C804

Superplasticiser/High Range Water Reducing Admixture

CICO PLAST SUPER-C804 is a high range water reducing Admixture based on specially designed poly carboxylate ether. It is a light amber coloured liquid and gets dispersed immediately in concrete mix together with water. It conforms to IS:9103-1999 and ASTM C-494 Type G

USES

CICO PLAST SUPER-C804 can be used to produce and extremely workable FLOWING CONCRETE without loss of strength or to enable large water reduction to be made for the same workability resulting in dense concrete with higher ultimate strength. This product is quite helpful in producing normal grades of pumpable concrete, pre-cast concrete, pre-stressed concrete, industrial / commercial flooring, roof slabs, etc

ADVANTAGES

- Substantial improvements in workability and flow properties without increased water produces self levelling concrete which can be poured into place around congested reinforcement and requires little (or no) vibration to achieve optimum compaction. The bond strength of concrete to reinforcement steel is considerably increased.
- Retained workability for very long time enabling to use in RMC plants without delay in hardening of concrete.
- Very significant water reduction minimises shrinkage cracking thereby producing close textured impervious concrete with improved

durability and surface finish. Suitable for use in most types of concrete above and below ground subjected to water pressure and aggressive atmospheric conditions. Reduction in concrete permeability protects against water migration and corrosion of embedded steel.

- For a given concrete mix, keeping the cement consumption and workability constant by large reduction in the amount of mixing water, substantial increase in strength can be achieved. Alternatively, for the same concrete mix, by keeping the workability and strength constant, a definite cement economy ranging from 15 to 40% can be obtained. Obvious advantages for pre-cast concrete production.

TECHNICAL DATA

Appearance	Low viscous liquid
Colour	Deep brown
Specific Gravity	1.09±0.02
Setting time	May increase marginally.
Chloride content	Nil
Compatibility	Compatible with all types of OPC, PPC and slag cement including white cement and sulphate resisting cement, micro silica fly-ash and GGBFS
pH Value	> 6 as per IS 9103-1999 amendment no. 2, August, 2007
Shelf life	18 months

METHOD OF USE

CICO PLAST SUPER- C804 is supplied ready for use. For maximum dispersion through the mix measured quantity of CICO PLAST SUPER-C804 should be added directly into the mixed at the same time as the mixing water. On no account should be added to the dry cement.

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 the range of : 200 to 1000ml per 50 kg of cement depending on the function.

PACKAGING

CICO PLAST SUPER-C804 is available in 220 kg plastic Barrel.

SL NO	FUNCTION	DOSAGE
1	As superplasticiser for flowing concrete	200ml – 600 ml per 50 kg cement
2	As high range water reducing admixture for high strength concrete	300ml – 1000 ml per 50 kg of 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.

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