



# RAPIDPLAST

## Accelerating Water Reducing Admixture

### DESCRIPTION

RAPIDPLAST is a liquid accelerator and plasticising agent. Complies to ASTM C-494 Type-E, 1S-9103-1999.

### USES

RAPIDPLAST accelerates the setting and hardening of concrete mix, there by achieving higher early age strength with all the resultant advantages of speeding up the job. These accelerating properties of RAPIDPLAST can be utilised in many ways, all of which can be shown to save time and money.

### ADVANTAGES

- Enables drastic reduction of water cement ratio
- Cement savings can be brought about by fine tuning the design mix.
- Reduces setting times.
- Makes concrete dense and cohesive, preventing segregation.
- Excellent for cold weather concreting, as it acts like on anti-frost agent.
- Substantially enhances early age strength (28 days strength can be attained in 7 days).
- Allows early demoulding of shutters/form work.
- Makes concrete impervious, thereby improving durability.
- RAPIDPLAST is strongly recommended for pre-cast concrete, structural concrete for roads, pavements, runways and flooring, because of the following advantages:-

### PRE-CAST CONCRETE

In all types of precast/pre-stressed concrete work, where earlier release from moulds and handling of units is essential for economical production of concrete. RAPIDPLAST is invaluable throughout the whole year, as the rate of addition is adjustable to meet variations in operating temperatures.

### STRUCTURAL CONCRETE

In structural concrete involving expensive shuttering, RAPIDPLAST enables earlier striking and re-utilisation of form work, which offers immediate appeal for speed and economy.

### PAVEMENT, FLOORS, ROADS, RUNWAYS ETC.

In concrete, grano floors, road, runways, hardstandings and paving etc, the ability to occupy the areas in the shortest possible time after laying is an obvious factor in favour using RAPIDPLAST. Where accelerated hardening of granolithic floors is required, care must be taken that the setting/shrinkage is kept to an absolute minimum. RAPIDPLAST enabling a fully workable granolithic mix to be produced with the lower water/cement ratio, will reduce 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 laitence.

In the sole interest of economy, RAPIDPLAST allows the use of leaner mixes to meet specified strength requirements. The strength of concrete of given mix proportion is related to the water/cement ratio - the lower the water content, the higher the strength. Therefore RAPIDPLAST gives higher strength through its plasticising properties, plus early setting and early hardening. It also provides a means of maintaining equivalent strength at a reduced cement content, by fine tuning the mix.

## APPLICATION

RAPIDPLAST is supplied ready for use and should be added to the gauging water. It should not be added directly to the dry mix. No extension of normal mixing time is necessary.

## DOSAGE

This varies from 0.5 - 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. For normal acceleration of hardening and emergency repairs, or very clearly form release, the dosage of RAPIDPLAST should be approximately 1 litre per 50 kg cement.

RAPIDPLAST is compatible with all types of Portland Cement, blended cements and special cements. However, trial mix is recommended for dose fixation.

RAPIDPLAST is formulated from carefully selected raw materials and manufactured under controlled conditions to give a uniform and consistent product.

## PHYSICAL PROPERTIES

Form	:	Liquid
Colour	:	Light Brown
Sp. Gravity	:	1.3 ± 0.1
Chloride	:	Nil

## HANDLING

RAPIDPLAST is formulated from chemicals which present no fire or health hazards.

## PACKING

RAPIDPLAST is available in 25 and 200 litre drum.

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## TECHNICAL SERVICE :

*SWC group maintains a technical division with highly qualified technical personnel to investigate and advise on subjects related to Concrete and the Construction Industry. The Division can advise on the correct use and selection of right products at the right place.*

*SWC undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures. SWC undertakes Contracts on turnkey basis for total Waterproofing System with guarantee*

**NOTE :** This Technical data sheet is to be used as guidance only. Although the basic formulation of the product remains unchanged, production refinements arising from continuing research and evaluation programmes may occasionally result in marginal change in properties. The recommendation and properties of the product based on continuous monitoring of the product are not intended to infringe on other patents.

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