



## Technical Datasheet

# CHEMfix 510

High Range Water Reducing Super Plasticizer for High Strength Concrete

### Description

**CHEMfix 510** is high range water reducing super plasticizer which reduces the amount of gauging water required and increases the workability and strength at the same cement content.

### ADVANTAGES

1. Provides strength increases of 15%-30% at all ages.
2. Reduced chances of bleeding and segregation
3. Dense, impermeable concrete
4. Increased workability & water tightness of concrete.

### FUNCTION

**CHEMfix 510** helps to reduce the water-cement ratio of concrete, thus minimizing the chances of void formation, shrinkage, cracking, bleeding, segregation and increased permeability. Concrete with **CHEMfix 510** is easily workable and produces a dense concrete structure.

### USES

**CHEMfix 510** increases the workability of concrete at the same water-cement ratio. This leads to better quality of concrete in the field.

**CHEMfix 510** reduces the total amount of water in the mix by about 5 % - 12 % and improves the strength of the hardened concrete without adversely affecting its initial workability.

**CHEMfix 510** reduces chances of concrete bleeding and segregation.

**CHEMfix 510** ensures similar strength of concrete mix at reduced cement content, thus economizing the concrete structure.

### METHOD OF USE

**CHEMfix 510** can be directly added into the mix at the same time as the gauging water. Reduce water dosages for required consistency.

### TECHNICAL INFORMATION

A trained **CHEMfix** representative is available to assist in the preparation of formulation and to help in the resolution of concrete problems in the field.

Color	: Dark Brown
Supply	: Liquid
Specific Gravity	: 1.18
Chloride Content:	Nil to BS 934-2
Flash point	: Nil
Air Entrainment	: 1-2%

## COMPATIBILITY

**CHEMfix 510** may be used with all Portland Cements including the sulphate resisting type. No harmful effect on reinforcing or pre-stressing steel.

**CHEMfix 510** is very effective in concrete containing pozzolanic material such as fly ash, silica fumes and slag. **CHEMfix 510** can be dispensed into any of concrete material except cement but preferably into the water. It is compatible with other admixtures; however, each admixture should be added to the mix separately.

## SPECIFICATION COMPLIANCE

Conforms to ASTM C 494 - 98 Type B, D & G.  
BS 934-2

## RECOMMENDED DOSAGE

400 ml to 650 ml per 50 Kg bag of cement. However site trials may be carried out to determine optimum dosage levels for desired properties. It is important that the amount of **CHEMfix 510** used be gauged accurately.

## SHELF LIFE

Practically unlimited in sealed original containers. However, it is advisable to use within 12 months from the date of manufacturing.

## EFFECTS OF OVERDOSAGE:

A severe over dosage of **CHEMfix 510** will result in the following:

- Retardation of initial setting
- Increase in air entrapment
- Increase in workability

## SAFETY PRECAUTION

**CHEMfix 510** is not a fire/ health hazard. Spillages should be washed out immediately with fresh water. Wear goggles and rubber gloves for proper handling.

## PACKAGING

210 liters drum & Bulk.



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