

CHEMfix505

Retarder Plasticizer Concrete Admixture

CHEMfix 505 is a modified lignin based admixture for effecting controlled retardation in setting of concrete as well as a reduction in water demand.

TECHNICAL INFORMATION

Form	:	Liquid
Color	:	Dark Brown
PH	:	4-6 approx.
Specific Gravity:		1.06 + 0.01
Chloride Content:		Nil to BS5075:1982
Nitrate Content:		Nil
Flash Point:		Nil
Air Entertainment:		<1%

ADVANTAGES

- Slow down the setting of concrete in high ambient temperature
- Large pours - to prevent 'cold joints'
- Delays between mixing and final compaction
- Long delivery hauls.
- Ready mix concrete
- Increase durability

FUNCTION

CHEMfix 505 increases the setting time of concrete and mortar as well as increases its ultimate compressive strength by reducing water content in the mix, to a certain extent.

METHOD OF USE

CHEMfix 505 can be directly added into the mix at the same time as the gauging water. Reduce water dosages for required consistency.



Technical Datasheet

USES

CHEMfix 505 is specifically formulated concrete admixture, which extends the time during which concrete remains workable. The initial and the final setting time of the cement and consequently, the slump retention of the concrete are extended in the accordance with the amount of **CHEMfix 505** added to the mix.

CHEMfix 505 significantly reduces amount of water added in the concrete mix, thus increasing the compressive strength of the concrete.

CHEMfix 505 can be used in conjunction and is compatible with all of **CHEMfix's** non-chloride accelerators and set Retarders combining **CHEMfix 505** with any other admixture containing naphthalene sulfonate such as **CHEMfix 400**, may result in a rapid slump loss. Mixing and transporting equipments should be thoroughly washed between subsequent batches of concrete containing **CHEMfix 400** and **CHEMfix 505**.

COMPATABILITY

CHEMfix 505 may be used with most Portland cements including blended cements and sulphate resisting cement.

CHEMfix 505 has no harmful effect on reinforcing steel, pre-stressing tendons etc.

CHEMfix 505 is very effective in concrete containing pozzolanic material such as fly ash, silica fumes and slag. **CHEMfix 505** 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

RECOMMENDED DOSAGE

The degree of retardation depends on the amount of **CHEMfix 505** added to the mix. Usually a dosage of 200-600ml per 50 kg cement will be suitable, but in higher temperature or where long retardation is required, it may have to be increased depending on the desired parameters of fresh concrete. Larger doses might result in proportionately increased setting time and workability.

SHELF LIFE

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



Technical Datasheet

EFFECTS OF OVER DOSAGE:

A severe over dosage of **CHEMfix 505** will result in the following:

Retardation of initial and final set

Slight increase in air entrapment

Increase in workability

If properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than the normal concrete.

TECHNICAL SERVICES

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.

SAFETY PRECAUTION

CHEMfix 505 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 drums

The information and recommendations above are given in good faith based on our current knowledge and experience of the products when properly stored, handled and applied in accordance with current best practice, national standards and our recommendations. As we have no control over site conditions or methods of application, no liability can be derived from the contents of this information sheet, or from any written recommendations, or from any other advice offered. The user of the product is solely responsible for the product's suitability for the intended application and is recommended to test the suitability prior to use. We reserve the right to change the properties of our products without notice. All orders are sold subject to our current terms of sale and delivery. With the publication of this Technical Information Sheet all previous editions are no longer valid.

82, Great Eastern Street London EC2A 3JF. UK. Tel: 02-07-2477775 - 07-811155379 (Associated Company of I-Courier) E-Mail: info@chemfix.com.pk Web Site: www.chemfix.com.pk, www.chemfixnigeria.com