

# CHEMfix 595

## Water Reducing Plasticizer/Retarder for Concrete

### Uses

To improve the effectiveness of the water content of a concrete mix. At higher dosages to provide cost effective means of reducing concrete permeability and thereby reducing water penetration. Hot weather concreting.

### Typical Applications & Advantages

- Ready mix concrete where workability retention coupled with retardation of initial set is beneficial.
- Water reduction significantly improves compressive strength at all ages.
- Enhances durability through the production of low permeability concrete.
- Reduces placing problems in hot weather concreting by improving workability and workability retention.
- Chloride free, safe for use in prestressed and reinforced concrete.
- Allows workability to be increased without adding extra water.

### Standards Compliance

CHEMfix 595 complies with the requirements of the following standards:  
ASTM C494 Type D

### Product Description

CHEMfix 595 is a chloride free and water reducing admixture based on selected sugar reduced lignosulphonate materials. It is supplied as a dark brown liquid, which instantly disperses in water.

CHEMfix 595 disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively and improving the consistency of the concrete. This produces higher levels of workability for the same water content, allowing benefits such as water reduction and increased strengths to be taken. These acts efficiently on the cement particles by combining the effects of powerful plasticizing and deflocculating agents.

### TECHNICAL INFORMATION

Color	Dark brown liquid
Supply	Liquid
Toxicity	Non-toxic
Specific Gravity:	1.15 @25±2°C.
Chloride content:	Nil



# Technical Datasheet

## Instructions for Use

### Compatibility

CHEMfix 595 can be used for all types of Portland cement and for use with any other special cements contact CHEMfix.

### Dosage

The optimum dosage of CHEMfix 595 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.4 to 1.5 litres/100 kg of cementitious material. Dosages outside the normal range quoted above can be used to meet particular mix requirements. Contact CHEMfix for advice in these cases.

### Setting

CHEMfix 595 acts efficiently to give controlled retardation of initial set. Setting times of concrete mixes are related to cement type and ambient temperature.

### Effects of Over Dosage

A severe over dosage of CHEMfix 595 will result in the following:

- Retardation of initial and final set.
- Slight increase in air entrainment.
- Increase in workability.
- Provided it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete.
- The retarding effects of very high dosage will be exaggerated with SR cement.

## Packaging & Storage

CHEMfix 595 is available in 210 liters drums. For site installations, deliveries will be made in bulk to site storage tanks. CHEMfix 595 has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

## Health and Safety Precautions

CHEMfix 595 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to be exposed to skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately –do not induce vomiting.

For further information, refer to the Material Safety Data Sheet available for this product.

## Technical Support

CHEMfix provides a comprehensive technical support service to specifiers, end users, and contractors and is able to offer on-site technical assistance.

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.

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