

CHRYSO®Plast 500 is a chloride free water-reducing admixture based on a blend of selected lignosulphonate and hydrolysed carbohydrate materials. It is supplied as a brown solution, which instantly disperses in water. CHRYSO®Plast 500 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.

Characteristics

- Appearance: Brown liquid
- SG: typically 1.20 at 20°C
- Chloride content: nil to BS 5075
- Air entrainment: typically less than 2% additional air entrained at normal dosages.
- Alkali content: typically less than 4.0g. Na₂O equivalent / litre admixture.

Packaging

- Bulk
- Containers: 1 000 litres
200 litres
25 litres

DIRECTIONS FOR USE

Applications

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

Advantages

- Particularly effective in improving compressive strength of mixes containing PFA and GGBFS.
- Water reduction significantly improves compressive strengths at all ages and enhances durability through the production of low permeability concrete.
- Allows workability to be increased without adding extra water, thereby maintaining strength levels.
- Allows specified strength grades to be met at reduced cement content or increased workability.
- Chloride free, safe for use in pre-stressed and reinforced concrete.

Typical dosage: The optimum dosage of CHRYSO®Plast 500 to meet specific requirements should always be

determined by trials using the materials and conditions that will be experienced in use. A starting point for such trials is to use a dosage within the normal typical range of 0.16 to 0.42 litres / 100kg of cementitious materials.

Use at other dosages: Dosages outside the typical ranges quoted may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available.

Compatibility: CHRYSO®Plast 500 is compatible with other CHRYSO® admixtures in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The performance of concrete containing more than one admixture should be assessed by the trial mix procedure recommended on this data sheet to ensure that effects such as unwanted retardation do not occur.

DIRECTIONS FOR USE (continued)

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Dispensing: The correct quantity of CHRYSO®Plast 500 should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results.

Overdose: An overdose of double the intended amount of CHRYSO®Plast 500 will result in significant retardation. Provided that adequate curing is

maintained, the ultimate strength of the concrete will not be impaired by increased retardation and will generally be increased. **1**

Curing: As with all structural concrete, good curing practice should be maintained, particularly in situations where an overdose has occurred. Water spray, wet hessian or a applied curing membrane should be used.

SAFETY

CHRYSO®Plast 500 does not fall into the hazard classifications of current regulations (see notes 1 and 2 below). However, it should not be swallowed or allowed to come into contact with 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.

Refer to Material Safety Data Sheet available from CHRYSO.