

# Hydraplast A

## Water reducing admixture

*Innovative products for your success*

### Uses

- 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

- Allows specified strength grades to be met at reduced cement content or increased workability.
- Water reduction significantly improves compressive strengths at all ages and enhances durability through the production of low permeability concrete.
- Minimizes the risk of segregation and bleeding and assists in the production of a dense, close textured surface, improving durability.
- Chloride free, safe for use in pre-stressed and reinforced concrete.

### Standards compliance

**Hydraplast A** conforms to BS 5075 Part 1 and with ASTM C494 as Type A. **Hydraplast A** is suitable for use in contact with potable water.

### Description

**Hydraplast A** is a chloride free water reducing admixture based on selected sugar-reduced lignosulphonates. It is supplied as a brown solution which instantly disperses in water. **Hydraplast A** 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.

### Technical support

Cemkrete provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

### Dosage

**Hydraplast A** the optimum dosage 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 0.4 to 1.0 litres/100 kg of cementitious material, including PFA, GGBFS and micro-silica.

### Use at other dosages

Dosages outside the normal ranges quoted above can be used to meet particular mix requirements. Contact Cemkrete for advice in these cases.

### Effects of overdosing

An overdose of double the intended amount of **Hydraplast A** will result in an increase in retardation as compared to that normally obtained at the intended dosage. Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired by increased retardation and will generally be increased. The effects of overdosing will be further increased if sulphate resisting cement or cement replacement materials are used.

### Properties

<b>Appearance :</b>	Brown liquid
<b>Specific gravity :</b>	Typically 1.165 at 20°C
<b>Chloride content :</b>	Nil to BS 5075
<b>Air entrainment :</b>	Typically less than 2% additional air is entrained at normal dosages.
<b>Alkali content :</b>	Typically less than 5.0 g. Na <sub>2</sub> O equivalent/liter of admixture. A fact sheet on this subject is available.

### Compatibility

**Hydraplast A** is compatible with other Cemkrete admixtures in the same concrete mix. All admixtures should be added to the concrete separately and must not be premixed together prior to addition. The performance of concrete containing more than one admixture should be assessed by trial mixes.

**Hydraplast A** is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and micro-silica. The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times

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### Dispensing

**Hydraplast A** the correct quantity 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. Contact Cemkrete for advice regarding suitable equipment and its installation.

### Estimating - packaging

**Hydraplast A** is available in 210 liters drums or bulk supply. For larger users the storage tanks can be supplied.

### Storage

**Hydraplast A** has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C. Should the temperature of the product fall outside this range then contact Cemkrete for advice.

**Freezing point:** Approximately -3°C

### Precautions

### Health and safety

**Hydraplast A** 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. For further information consult the Material Safety Data Sheet available for this product.

### Fire

**Hydraplast A** is water based and non-flammable.

### Cleaning and disposal

**Hydraplast A** spillages should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

### Storage

### Shelf life

**Hydraplast A** has shelf life of 12 months if kept in warehouse conditions at 30°C in the original, unopened pack.

### Additional Information

Cemkrete manufactures and supplies a wide range of those complementary products which includes:

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialized flooring materials
- Fireproof coating and systems
- Concrete admixture
- Repairing material

For further information on any of the above, please consult your local Cemkrete office - as below.

**Important Note:** Cemkrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemkrete endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, Cemkrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.