



## *Hydraplast B*

### *Water-proofing and Plasticizing Concrete Admixture*

#### **Description**

A liquid concrete admixture to concrete and mortars that allows for an increased workability; improves flowing of concrete, mortars including self leveling mortars, and rendering materials. In addition, it also acts as a water-proofing agent.

#### **Object**

Hydraplast B is recommended for use for water-proofing of masonry and concrete structures as also to facilitate the placing of concrete on objects such as:

- Dams and reservoirs
- Canals, tunnels and culverts
- Sewerage, waste water and waste water treatment plants
- Swimming pools, water-tanks
- For the placing of self leveling mortars where high tolerances are required

#### **Advantage**

- Improves workability of all concrete, mortar and rendering mixes
  - Provides for an easier compaction of concrete, thereby improving density of concrete which in turn reduces water permeability and improves waterproofing characteristics
  - Increases compressive and flexural strength of concrete and mortars
  - Chloride-free and thus not aggressive towards reinforcement steel
- Improves flow-characteristics of concrete thereby providing for faster pumping with less wear and tear on mechanical parts in concrete pumps and thus reducing the cost of placement of concrete

#### **Standard**

Meet ASTM C-494 Type A.

#### **Instruction for Use**

Hydraplast B is supplied ready for use. It should be added to the concrete mixes during the mixing process, at the same time as the water and aggregates are added. Hydraplast B should not be added directly to the cement. Does not delay normal mixing time. It is always necessary to evaluate the performance of Hydraplast B at tests at site and at batching plant and with the aggregates and sands that will be used. Such evaluations shall determine dosage rates against desired properties of concrete such as compressive strength; gains in early strength of concrete; shrinkage and other such characteristics of importance. As a guide for such trials, 500-800 ml of Hydraplast B should be added per 100 kg of cement in order to evaluate workability of concrete in hot weather. Always consult ACT for such trials. Appropriate, reliable and exact dispensing equipment is available from ACT.

#### **Effect of Overdosing**

Overdosing will cause an increase in setting time. This is a serious condition that may lead to segregation of concrete, and thus a lowering of strength in top layers of floor-slabs and thus contributing towards inferior surface finishing. If this happens, do not disturb concrete after placement. Immediately stop further deliveries of ready-mixed concrete until dosage has been corrected. Contact ACT Technical Services immediately.

## **Characteristics**

Appearance:	brown liquid
Bulk density:	1.14 +/- 0.01 kg/l
pH value:	8.5-9.0
Freezing point:	-2 °C
Flash-point:	Non-flammable

## **Packaging**

In drums of 210 kg.

## **Storage**

Hydraplast B should preferably be or protected from frost. If the product does become frozen, it should be carefully mixed after thawing out to restore it to its normal state. Do not expose to direct sunlight

## **Precaution**

Non-toxic. In case of contact with skin, wash with clean water. In case of eye-contact, wash immediately with an abundance of clean water and contact eye-doctor.

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