



Hydraplast Super

High-range Water Reducing Agent and Superplasticizer

Description

Hydraplast Super is a high performance water soluble concrete additive for the production of high strength concrete in hot climates. Chloride-free. Based on sodium salt of high molecular weight naphthalene sulphonate and formaldehyde condensate. Delivered in liquid form.

Object

- Mass-pours of concrete
- Slabs and foundations
- Dams, Road, High-way, bridge, column constructions
- Pre-stressed concrete surfaces
- Pre-cast factories for the construction of concrete elements where fast re-cycling of forms is of importance
- Repairs to roads , highways and bridges to minimize closure to traffic and ensure early reopening

Advantage

- Improves compressive, flexural and bonding strength
- High early strength when used also as an accelerator
- Improves durability of concrete
- Improves flow-characteristics of concrete and thus also pumpability
- Improves wear and abrasion resistance of finished surface
- Increases density of concrete and thereby increases water-proofing characteristics of concrete

Standard

Meets ● A.S.T.M. C494-1980 Type A&F
● BS 5075 Part 3: 1984.

Instructions for Use

- For ensuring high early strength (pre-cast factories, pre-stressed structures, road and bridge-repairs). Keep water content lower in accordance with enclosed diagram.
- For improving flow-characteristics a greater proportion of water must be added. Hydraplast Super must be mixed with water prior to mixing into concrete. Water addition rates depend on desired effect. Generally, for a certain effect to be obtained, as water content in relation to solid content is increased, a greater quantity of the mix must be dispensed.
- Dosage is 0.8-2.0 L. of Hydraplast Super in relation to cement 100 kgs., depending on the workability and strength property that are required. The optimum dosage for a certain required effect is best determined by a test at site. For advice and assistance on how to conduct such tests, the Technical Services of ACT are available.
- Should not be add directly to dry cement.
- Should be introduced into the concrete mix by means of automatic dispensing equipment which is a available service from ACT.

Characteristics

Appearance: dark brown liquid
Bulk density: 1.20 +/- 0.01 kg/l
pH value: 7.0-8.0
Freezing point: -15 °C
Flash-point: Non-flammable

Packing and Delivery

In drums of 210 l., 1000 l. and by road tanker.

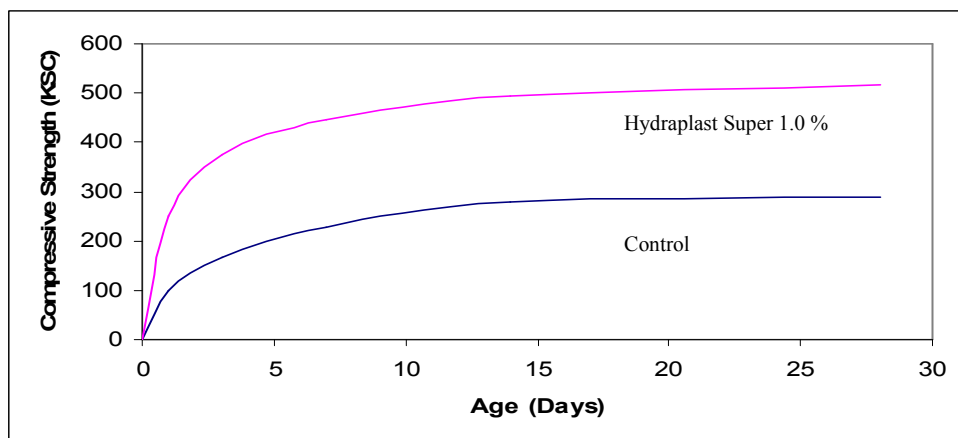
Dosage

0.8 – 2.0 L./cement 100 kgs. depending on workability and strength of concrete.

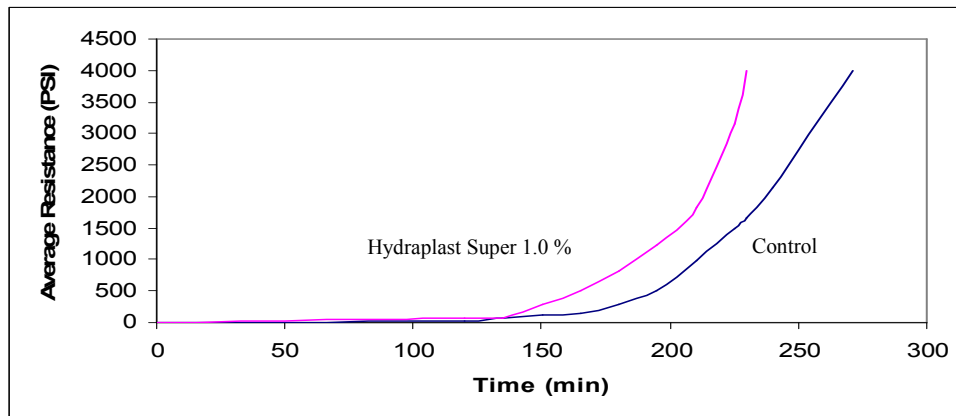
The best dosage will be defined with a previous test.

Storage

Unlimited in well sealed and unbroken drum, stored in shade and avoiding excessive heat.



Strength Development Chart Compare with Control



Setting Time Chart Compare with Control

Note : Stiffening Setting Time = 80 PSI
 Initial Setting Time = 500 PSI
 Final Setting Time = 4000 PSI

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