



Hydraplast C

Concrete Accelerator

Description

Hydraplast C is an accelerating plasticizer or water reducing agent for concrete and mortar and is based on calcium chloride. It is particularly useful for obtaining high early strength in pre-cast items such as blocks and lintel etc. especially at low ambient temperature. The plasticizing ingredient of Hydraplast C is fully soluble in the calcium chloride solution and no separation occurs even at low temperatures.

Object

Hydraplast C is supplied ready for use. It should be added to concrete mixes during the mixing process at the same time as the water or the aggregates. It should not be added directly to the cement. No extension of normal mixing time is necessary. Hydraplast C imparts higher early and ultimate strengths to concrete enabling forms to be stripped sooner and blocks to quickly achieve high lifting strengths. This effect is particularly useful at low ambient temperatures. The effective plasticizing action of Hydraplast C will give increased workability to most concrete mixes enabling easier placing.

Advantage

- Increased compressive, flexural and bond strength of concrete to steel
- Greater economy in a mix for a given strength
- Minimum cracking
- Improved water tightness
- Easier placement
- Better finished appearance
- Economy in placement.

Standard

Meet ASTM C-494 Type C.

Instruction for Use

- The performance of Hydraplast C is best assessed after preliminary tests on site using the actual concrete under consideration to determine the optimum dosage and effect on properties such as ultimate compressive strength, early rate of gain of strength and shrinkage, when these are of consequence.
- As a guide to these trials, an addition rate is recommended of 840 ml-1680 ml Hydraplast C per 50 kg cement.
- Serious over-dosing of Hydraplast C will generally produce a considerable increase in workability and shorten the setting and hardening process. Such over-dosing is, however, to be avoided because the maximum addition rate of Hydraplast C is equivalent to approximately 1.4 % by weight of anhydrous calcium chloride based on the cement. This is the level normally advised as being the maximum that should be used in cementitious compositions.
- It is preferable that liquid admixtures for concrete should be introduced into a mixer by means of automatic dispensing equipment.
- Hydraplast C contains calcium chloride and should not under any circumstances be employed in concrete where pre-stressing or Post-tensioning of reinforcement is to be used.

Characteristics

Appearance: brown liquid
Bulk density: 1.30 +/- 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 C 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.

Act (Thailand) Co., Ltd.

Address : 19 Moo 1 Kubangluang
Lardlumkaew Pathumthai 12140
Tel. : (66)-0-2979-4446-9 , (66)-0-29794936-9
Fax. : (66)-0-2979-4445
Email : info@actthai.com
Web Site : <http://www.actthai.com>

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