



Hydraplast Blockmix

Superplasticizer for Zero Slump Concrete

Description

Hydraplast Blockmix is a specially formulated admixture for use in the manufacture of concrete blocks, concrete pipes or mortars and concrete where process requires zero or very low slump concrete and a normal textured block is desired. Hydraplast Blockmix is supplied as a chemically formulated and manufactured ready-to-use liquid. Its low viscosity, approximating that of water, ensures accurate and rapid dispensing.

Object

Factories for the manufacturing of concrete blocks and concrete pipes. The mixes designed for these products are characteristically dry, containing only sufficient water for the hydration of the cement. Additional water would be desirable to improve workability and to compensate for any loss in water which would result in incomplete hydration of the cement and to compensate for any loss in water which would result in incomplete hydration of the cement and lower strengths. However, an increase in water content is impractical from a production standpoint.

Advantage

- Improves compressive, flexural and bonding strength
- High early strength when used also as an accelerator
- Improves durability of concrete
- Increases plasticity in mix
- Better compaction

- Improves wear and abrasion resistance of finished surface
- Increases density of concrete and thereby increases water-proofing characteristics of concrete
- Reduced cracking and crazing
- Sharper corners and edges
- Increased waterproof property and frost resistance

Standard

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

Instructions for Use

Hydraplast Blockmix is supplied ready for use and may be added to the mix water prior to addition to the aggregate or by means of an automatic dispenser. No extension of normal mixing time is necessary. To be used at rates of 800-2000 ml per 100 kgs of cement, depending on quality of cement, aggregates, water, cement ratio, temperature and job conditions. Consult ACT Technical Services for field-tests. In factories and under mass-production conditions, Hydraplast Blockmix should be introduced into concrete mix by means of automatic dispensing equipment. Such equipment is available from ACT.

Effect on Overdosing

Serious overdosing will generally produce an increase in workability and cohesion of the mix but accompanied by a slower setting time. It will not affect final compressive strength

Packing and Delivery

In drums of 210 l. or by road tanker.

Characteristics

Appearance:	dark brown liquid
Bulk density:	1.18 +/- 0.01 kg/l
pH value:	7.0-8.0
Freezing point:	-2 °C
Flash-point:	Non-flammable

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.

Cleaning

Do not pour surplus materials down drains, wash all brushes immediately with water.

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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