



Hydraplast Super R

High-Range Water-Reducing Agent, Superplasticizer and Set Retarding Admixture

Description

Hydraplast Super R is a high-performance water-soluble concrete additive specially formulated for the production of high strength concrete in hot climates with extended slump retention and set retarding. Whereas standard superplasticizer normally provide a slump increase for only some 25 to 45 minutes, Hydraplast Super R increases the slump-increasing effect to more than twice the normal. Chloride-free. Free from sulphates. Based on sodium salt of high molecular weight naphthalene sulphonic and formaldehyde condensate.

Object

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

Advantage

- Reduce water requirements by more than 40%
- Improve flow-characteristics of concrete and thus also pump ability
- Improve workability of concrete in general without increased water and thus with limited risk for segregation and bleeding
- Facilitate improved surface finish
- Reduce shrinkage and creep

Standard

Meets • A.S.T.M. C494-1980 Type G&F
• B.S. 5075

Instruction 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. Dosage is 1% to 2% of Hydraplast Super R in relation to cement content by weight, depending on the workability and strength characteristics 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. Hydraplast Super R is compatible with all types of Portland cement.

Characteristics

Appearance:	dark brown liquid
Bulk density:	1.20 +/- 0.01 kg/l
pH value:	7.0
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.

Effect on Overdosing

Serious overdosing of concrete will generally produce a concrete of even greater workability and set retardation but with no increase in air entrainment. The lower the temperature, the longer the setting time is increased (a factor to consider when pouring concrete in afternoon and into the night; setting time will suddenly increase even when dosage of plasticizer remains the same). If intentional or accidental increases of dosage are employed, care must be taken to allow for the effect of such changes on the stripping time for form-work. Overdosing may seriously effect segregation of concrete. If overdosing occurs and cannot be corrected for, contact immediately ACT Technical Services

Packing and Delivery

In drums of 210 l. or by road tanker.

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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