



Hydraplast Super FM

Superplasticizer for Very Smooth Surface Concrete

Description

Hydraplast Super FM is a high performance water soluble concrete additive for the production of high strength concrete in cold weather condition. Chloride-free. Free from sulphates. Based on sulphonate melamine formaldehyde condensate. Delivered in liquid form. Hydraplast Super FM is intended for use in production that requires a very smooth and good surface. It allows major water reduction, resulting in significantly increased early and ultimate strengths, and increased workability achieved without loss of strength.

It is used to impart extremely high workability to concrete, enabling large or difficult pours to be made with little or no vibration. Hydraplast Super FM functions by absorbing onto the surface the cement grains, resulting in a deflocculating action and a more uniform dispersion of the particles.

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

Standard

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

Advantage

- Very smooth surface
- 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
- Chloride free and thus not affecting steel reinforcement in concrete
- Cement savings
- Placing of concrete in heavily reinforced constructions more easily
- Reduce separation and segregation
- No air-entraining
- Lower permeability
- Reduced vibration requirements
- For prevent the surface defects such as bubble and honeycombs

Characteristics

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

Instructions for Use

When used as a superplasticizer to increase the slump of the concrete, Hydraplast Super FM should be added to the fresh mixed concrete at the final quantity of mix water. Before adding Hydraplast Super FM the slump of the concrete must be 5-10 inch. Should not be introduced to dry cement. Dosage is 0.8% to 2% of Hydraplast Super FM in relation to cement content by volume/weight (if solid content to water in mix is 40 %), depending on the workability and strength characteristics that are required. After the addition, a further mixing cycle of at least 2 minutes is recommended to enable efficient dispersion of Hydraplast Super FM. In order to maintain maximum workability of the superplasticised concrete, it should be discharged into the placing area soon after the addition of Hydraplast Super FM. The optimum dosage for a certain require 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 FM is compatible with all types of Portland cement. Hydraplast Super FM should be introduced into the concrete mix by means of automatic dispensing equipment. Such equipment, including services thereto, is available from ACT.

Effect on Overdosing

Serious overdosing of concrete will generally produce a concrete of even greater workability, set retardation and may include the onset of segregation, with no increase in air entrainment. Depending on the extent of the overdose, an increase in the setting time, will occur if intentional or accidental increase of dosage are employed, care must be taken to allow for the effect of such changes on the stripping time for form-work. However, with proper and normal curing, the effect of overdosing will generally be an increase in the ultimate strength. 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.

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