

Techno Mix 761

Super plasticizing and workability retention admixture

Uses

To produce high workability concrete requiring little or no vibration during placing. Provides high reduction in free water without loss of workability, resulting in high quality concrete of reduced permeability with increased early strength gain. Suitable for precast concrete pipes.

Advantages

- Increased workability reduces placing time, equipment and labour element. Needs little or no compaction during placing.
- When used as a water reducer without cement reduction, early strength is increased by up to 70% at 24 hours. Ultimate strength is also increased.
- Increases density and reduces porosity resulting in improved water penetration resistance.
- Increases cohesion, minimizes bleeding and segregation and gives improved surface finish.
- Chloride free, so safe in prestressed concrete.
- Compatible with sulphate resistant cement or marine aggregates.
- Will enhance workability retention.

Description

Techno mix 761 is a synthetic plasticizer derived from sulphonated naphthalene. It is supplied as a brown liquid instantly dispersible in water.

Standards

Techno mix 761 complies with Part 3 Type F High range Water Reducing

Properties

Specific gravit	1.19 to 1.21 at 20° C.
Calcium chloride content	Nil to BS 5 07 5.
Air entrainment	Less than 1% additional air is entrained.
Setting time	Less than 1 hour retardation at normal dosage.
Compatibility	Can be used with all types of Portland cements Type V

Modern Technologies for Construction Chemicals

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cement and cement replacements .Techno mix 761 is generally compatible with all other M. T. C. Admixtures when added separately to the mix.

Durability

When Techno mix 761 is used for water reduction the increase in density and reduction of permeability improves durability and reduces porosity.

Compressive strength/density

Substantial reduction in water/cement ratio will result in a large increase in 24 hour compressive strength without the loss of workability.

Cohesion / segregation

Improved dispersion of the cement particles will increase cohesion at both the flowing and plastic consistency. The occurrence of bleeding and sand runs is substantially reduced, thus improving the surface finish achieved.

Instructions for use

Dosage

The optimum dosage for Techno mix 761 should be determined by site trials with the particular concrete mix under prevailing ambient conditions. Site trials should always be compared with and without Techno mix 761 to quantify the true value of increase in strength gain. As a guide, the dosage will fall into: 0.60 to 2.5 litres/100 Kg cement.

Overdosing

An overdose of double the recommended amount Of Techno mix 761 will result in very high workability and some retardation will occur. The ultimate compressive strength of the concrete will not be impaired.

Dispensing

The correct quantity of Techno mix 761 should be measured by means of a recommended Dispenser.

Mix Design

When flowing concrete is to be used the design should be based on high cohesion pump mix technology. Where maximum economy is required via cement saving and free water content reduction the fines content should always be as "low" as possible to allow the remaining free water to act more efficiently.

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Curing

As with all structural concrete, normal curing methods apply.
Water spray
wet Hessian or one of the Techno cure spray applied surface
contact curing membranes should be used in all cases.

Cleaning

Spillages of Techno mix 761 can be removed with water.

Fire

Techno mix 761 is non-flammable.

Storage

Techno mix 761 has a minimum shelf life of 12 months
provided the temperature is kept within the range 2 °C to
50 °C.

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