

Techno Mix MS 750

Super plasticiser 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, minimises 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 750 MS is a synthetic plasticiser derived from sulphonated naphthalene. It is supplied as a brown liquid instantly dispersible in water.

Standards

Techno Mix 750 MS complies with BS5075 Part 3
ASTM C494 Type F High range Water Reducing Admixture.

Properties

Specific gravity 1.19 to 1.21 at 20 °C.
Calcium chloride content Nil to BS 5075.
Air entrapment
Less than 1% additional air is entrained.
Setting time
Less than 1 hour retardation at normal dosage.

Compatibility

Techno Mix 750 MS can be used with all types of Portland cements, Type V cement and cement replacements.

Durability

When Techno Mix 750 MS is used for water reduction the increase in density and

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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 750 MS 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 750 MS 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 750 MS 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 750 MS 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.

Curing

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

Cleaning

Spillages of Techno Mix 750 MS can be removed with water.

Precautions

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Health and safety

Techno Mix 750 MS is non-toxic. Any splashes to the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

Fire

Techno Mix 750 MS is non-flammable.

Storage

Techno Mix 750 MS has a minimum shelf life of 12 months provided the temperature is kept within the range 2°C to 50°C.

Packaging

Techno Mix 750 MS is supplied in 20 and 210 liter drums and also in tanker loads.

Supply

Contact your local M. T. C. office or representative.

Technical service

The company provides a technical advisory service for on site assistance and guidance on evaluation trials and dispensing equipment.

Additional Information

Technical data can be provided on a wide range of admixtures, and concreting aids including accelerators, retarders, water proofs, mould release agents, surface retarders and repair materials.

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