

Techno Mix A 11

Integral waterproofing admixture for concrete

Uses

To 'waterproof concrete' and cement/sand mixes such as structural and precast concrete, renderings, brickwork mortar, screeds and granolithic toppings. Ideal for swimming pools, sea walls, tunnels, basements, etc.

Advantages

Chloride free

Safe in prestressed, reinforced or marine concrete and compatible with sulphate resistant cement or marine aggregates. Reduced permeability. Reduction of add water increases density and reduces porosity resulting in substantially improved water penetration resistance. Increased strength. The water reducing properties of Techno mix A 11 enable higher compressive strengths to be obtained in concrete at the same workability. Integral. Not a membrane or surface film.

Description

Techno mix A 11 is a formulated blend of inorganic plasticizers. It is supplied as a red colored liquid instantly dispersible in water. When added to concrete mixes it acts as a powerful dispersing agent enabling the water content to perform more efficiently by causing the cement particles, which tend to agglomerate, to disperse and expose a larger surface area. The hydration reaction can proceed more efficiently with less water. The use of Techno mix A 11 will promote water reductions of 10% or more giving a denser concrete of significantly reduced permeability.

Technical support

M.T.C. provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

Dosage

Techno mix A 11 for 'waterproofing' mass and structural concrete is added at the rate of 0.3 to 1 liter per 100 kg cement. The measured quantity of Techno mix A 11 should be added directly to the mixer preferably at the same time as the mixing water.

Effects of overdosing

An overdose of double the recommended amount of Techno mix A 11 can result in retardation of the initial set of the concrete. The ultimate strength of the concrete will not be impaired and will generally be increased.

A considerable increase in workability will be achieved.

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Properties

Specific gravity	1.11 to 1.130 at 25°C
PH	6 to 10
Chloride content	Nil to BS 5075

Air entrainment

Techno mix A 11 acts as a mild air detrainer.

Compatibility

Techno mix A 11 can be used with all types of Portland cements including Type V.

Techno mix A 11 is generally compatible with all other M. T. C. admixtures if added separately to the mix.

Setting time

Less than 1 hour retardation at normal dosage.

Durability

When Techno mix A 11 is used for water reduction the increase in density and reduction of permeability improves durability and reduces porosity.

Compressive strength/density

Reduction in the water/cement ratio will result in an increase in the compressive strength without the use of other admixtures or the loss of workability.

Packaging

Techno mix A 11 in 210 liter drums or in bulk.

Storage

Minimum of 12 months provided the temperature range has not exceeded 2°C to 50°C.

Precautions**Health and safety**

Techno mix A 11 should not come into contact with skin and eyes or be swallowed. Wear suitable gloves and eye/face protection. In case of contact with skin, wash with plenty of soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately.

Cleaning

Spillages of Techno mix A 11 can be removed with water.

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