RMC M12

Waterproofing Admixture for Underwater Structures, Canals & Basement



DESCRIPTION

RMC M12 is a liquid waterproofing admixture which acts on the cement particles in the mix, combining the effects of a powerful plasticiser and excellent waterproofing material.

APPLICATIONS

- Where waterproofing is of prime importance.
- Ready mix concrete where workability retention coupled with retardation of initial set are beneficial.
- Large slabs or bridge decks, etc. where extension of vibration limits is beneficial to avoid cold joints.

ADVANTAGES

- Specially designed for Underwater Concrete.
- Considerably extends vibration limit of concrete mixes thus reducing incidence of honeycombing and cold joints.
- Reduces placing problems in hot weather concreting by improving workability and workability retention.
- Improves trowellability and surface finish.
- Considerably reduces permeability.
- Enables economies in mix designs to be achieved.

TYPICAL PROPERTIES

Property	Value
Colour	Dark brown liquid
Specific gravity	1.178 @ 25°C
Chloride content	“chloride free”
Freezing point	Not tested

RMC M12 may be added separately over the top of ready mix concrete atleast 5–10 minutes before pouring of cement.

DIRECTIONS FOR USE

RMC M12 should be added to the concrete mix during the mixing cycle at the same time as the water or the aggregate. Never add RMC M12 to the dry cement. No extension to normal mixing times is necessary.

Dosage

In all cases we recommend trial mixes are carried out to determine the correct levels of admixture required to achieve the desired concrete properties. The following figures should be utilised as a starting point for these trials.

For site batched concrete where extended vibration time and improved finishing properties are of prime importance, a dosage of between 500–750 ml per 50 kg of cement should be used as a starting point for the trials. For ready mixed concrete, extended concrete workability is of prime importance, a dosage of between 500 to 750 ml per 50 kg of cement should be used as a starting point.
Dependent on the desired properties, a dosage of up to 750 ml per 50 kg of cement may be utilised. Higher dosages may be required when certain combinations of materials and conditions are present.

Setting Time

RMC M12 acts efficiently to give controlled retardation of initial set. Setting times of concrete mixes are related to cement type and ambient temperatures.

Safety Precautions

RMC M12 is not a fire or health hazard. Spillages should be washed down immediately with cold water.

Compatibility

RMC M12 can be used with all types of Portland cement including SRC and OPC. For use with other special cements, contact BUILDING COMFORTS Technical Services Department.

RMC M12 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing RMC M12, they must be dispensed separately.

Effects of Over Dosage

A severe over dosage of RMC M12 will result in the following:

- Retardation of initial and final set.
- Slight increase in air entrainment.

Providing it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete. The retarding effects of very high dosages will be exaggerated with SR cement.

STORAGE

Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf lifre is up to 12 months when stored as above

PACKING

RMC M12 is available in 30 Ltr, 200 Ltr and 1000 Ltr Packing.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BUILDING COMFORTS representative

Chemical composition may after / very due to many factors including but limited to environmental and Raw material.

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