

MASTERSPEED ACL

ACCELERATING ADMIXTURE FOR CEMENT CONCRETE AND MORTARS

DESCRIPTION

MASTERSPEED – ACL is a liquid accelerating admixture for cement concrete & mortar. It is designed to accelerate the normal setting time of concrete. It increases early strengths of concrete & mortars. It improves the physical & engineering properties of concrete such as workability, compressive and flexural strengths. It densifies the concrete and reduces the permeability. In situations where there is an embedded steel or RCC or where high alumina cement is used or where steam curing is employed in such cases Masterspeed ACL should not be used. In such cases use our product Masterplast ACPL which is chloride free.

FEATURES / ADVANTAGES

- Prevent the delay of construction jobs in cold weather
- Reduces initial setting time of concrete
- Increases strength of concrete and mortar
- Improves workability of the concrete
- It densifies the concrete and mortar
- It provides high early strength for fast demoulding from framework
- Allows earlier release from precast moulds
- Non toxic

TYPICAL APPLICATIONS

- Structural concrete
- Concrete blocks
- Paver blocks
- Concrete pipes
- Precast items
- Cold weather masonry work for use in stucco, brick laying, blocks and clay tiles laying mortars.

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TYPICAL CHARACTERISTICS

- Nature : Single component, liquid
- Color : water white color
- Relative density at 25⁰C : 1.250 ± 0.02gms/cc
- pH Value : Min. 6

SPECIFICATION COMPLIES

- IS: 9103 Accelerating admixture
- EN 934 PART 2
- ASTM: C – 494, Type – C

DIRECTIONS FOR USE

METHOD FOR USAGE

It can be used with all type of standard cements. It is compatible with all other Choksey Chemicals admixture in the same concrete mix. Masterspeed ACL of required quantity should be added to part of gauging water before mixing with concrete made with remaining gauging water for better results. The concrete should be mixed for at least a minute after addition of Masterspeed ACL. Thus the admixture should be added to the concrete separately with the mixing water & should not be directly mixed together prior to addition.

DOSAGE

For accelerating from 0⁰C to 15⁰C, add 800 cc per 50 kg bag of cement to the concrete. Dose may be increased or decreased depending upon the acceleration needed at the site or any other special job conditions

For temperatures above 15⁰C reduce the dose to half quantity.

Add Masterspeed ACL to mixing water and not to the dry cement. Mix it homogeneously. Concrete should be discharged from the truck within 1 hour.

The optimum dosage and compatibility of Masterspeed ACL with the locally available materials has to be ascertained by proper site trials using site raw materials. Because of variations in job conditions, concrete materials & climatic conditions dosage may vary in such cases, contact our CCPL technical service department. An overdose of this further accelerates the set rate of concrete but does not affect the ultimate strength of concrete.

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Good curing practices should be maintained such as water spray wet hessian or curing with spray applied curing compounds. The use of our spray applied curing compounds products Mastercure RB2M & Mastercure WB2M will prevent the early water loss from the surface of the flat works such as pavements in dry, windy and hot climates.

CLEANING OF TOOLS AND EQUIPMENTS

Tools and equipment's can be easily cleaned with water. Skin contact should be avoided as it is slightly acidic & seek medical advice.

STORAGE AND SHELF LIFE

Store the material cool and dry place (preferably at 30°C. Temp) Shelf life is one year when materials are stored in unopened containers as per recommended storage conditions.

Important: Reseal container carefully after use and before disposal.

PACKING

1 liter, 5 liter, 20 liter, & 200 liter containers as per requirements

PRECAUTIONS

- Do not mix with dry cement
- Add to mixing water only
- Stir well before use

DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential non performance.