



Concrete Admixtures and Fiber

IMIX-RB100

Set Retarder and Extended Slump Controlling Admixture

DESCRIPTION

IMIX-RB100 is a synthetically produced liquid set retarding admixture and extended slump controlling admixture for concrete. Concrete treated with IMIX-RB100 maintains slump for prolonged periods in accordance with the requirements of the job. It is designed to provide increased workability and placement time. IMIX-RB100 is used to deliver concrete greater distances from the plant, up to four or more hours, depending on the dosage. It is also used to pump concrete to great heights and for structures containing large amounts of reinforcing steel. IMIX-RB100 reduces water in conventional concrete from 4% to 5%. In RCC concrete, where higher dosages are used, the water reduction can be up to 7%.

BASIC USES

- RCC Concrete for Hydroelectric Dams
- Concrete for Airports
- Concrete for Highways Pavements
- Concrete for High-Rise Buildings
- Concrete with special temperature requirements and high quality standards

ADVANTAGES

- Controls the rate of initial set
- Maintains slump at temperatures even greater than 38°C (100°F)
- Maintains slump for up to four hours or more
- Improves workability
- Provides a mix that is more sensitive to vibration, producing concrete with fewer voids and a cleaner appearance. This is helpful for architectural concrete.
- Creates denser, less permeable concrete
- Reduces segregation

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TECHNICAL INFORMATION

IMIX-RB100 reacts with cement in its plastic phase, putting it in a dormant state for a period of time controlled by adjusting the dosage used. The loss of slump during this period is minimal and the initial heat of hydration remains low. The initial temperature of the concrete does not rise during its plastic phase.

This quality makes it possible to control the concrete temperature during its plastic state, even at temperatures over 80°F. This condition is very effective in cases where it is required to lower the concrete temperature by adding ice or chilled water, because IMIX-RB100 will maintain the initial temperature of the concrete until placement is completed.

IMIX-RB100 meets ASTM C 494, latest revision for Type B and contains no chlorides or chloride ions.

DOSAGE

2 to 7 oz. per 100 Lb. of cement (130 ML TO 455 ML per 100 Kg of cement)

APPLICATION

IMIX-RB100 is introduced to the concrete with the mixing water. The dosage is variable according to the ambient temperature, retardation required and length of slump maintenance needed.

Tests should be performed to ensure compatibility, prior to using IMIX-RB100 with any other retarding admixtures.

Special attention should be taken, if the element to be poured is an interior industrial floor with poor or lack of ventilation because this atmospheric condition may cause prolong setting time. The strength of the concrete will not be affected but the finishing activities will be disrupted by the prolonged setting time.