BETONAC®-1030

HIGH RANGE WATER REDUCING, HIGH EXTENDED WORKABILITY SUPER PLASTICISER CONCRETE ADMIXTURE

DESCRIPTION

BETONAC®-1030 is a high efficiency Polycarboxylate Polymer based super plasticizer and is formulated to maintain workability and extend slump-flow life, while offering very high workability concrete without segregation and to achieve high early compressive strength. It enables consistent manufacturing of self-compacting concrete. BETONAC®-1030 is designed to produce high workability concrete and is a high efficiency super plasticizer to produce virtually SCC (self-compacting/consolidating concrete), with extremely high levels of workability without segregation.

USES

BETONAC®-1030 is used whenever a easy placement, and compaction such as in hot weather concreting, where controlled set will assure sufficient placement time and improve concrete quality.
BETONAC®-1030 extends slump life and concrete workability and provides superior concrete surface finish characteristics. It reduces bleeding and segregation where poor sand grading is unavoidable.
It saves cement in the region of 15% to 20% without reducing strength.
It can also be used to produce concrete with very low water / cement ratio (up to 25%) while maintaining normal levels of workability.

ADVANTAGES

- **Improved workability** - Virtually self-compacting and self-levelling properties. Speeds placing of concrete and construction works.
- **Improved cohesion** - Reduces bleeding and segregation where poor sand grading are unavoidable.
- **Easy pumping** – due to improved workability and cohesion. BETONAC®-1030 also provides protection against delays and stoppages.
- **In-situ piling** - Easy removal of formwork and avoidance of cold joints.
- **Cement saving** - Typically in the region of 15% -20% cement saving can be even higher depending on the quality of aggregate and cement used.
- **Precast & Pre-stressed** Concrete production.
- **High Early strengths** - at 24 & 72 hours of concrete age.

STANDARD

BETONAC®-1030 complies with ASTM C 494 Type F, DIN EN 934-2.
(ASTM C 494 requirements: Type F: water reducing high range admixture).

APPLICATION

BETONAC®-1030 should be measured accurately using a dispenser and added at the third mixing sequence with 25%-30% of the mixing water when both aggregate and cement are wet.
Very Important Note : After adding this additives to the concrete mixture (at the final mixing sequence), NO water should be added afterwards because it will affect the compressive strength negatively .

Dosage

Typically between 0.6% to 1.5% of cement weight, but can be adjusted to meet extended spectrum of concrete performance requirements. **Trial mixes are recommended.**

Curing

Retarded concrete must be prevented from drying out. The use of LEYCO® CURASIN curing agent is strongly recommended.

Compatibility

It is recommended not to use BETONAC®-1030 with Naphthalene and Melamine-based concrete admixtures. Pretesting of concrete is recommended to optimize dosage rate, addition times in batch sequencing and concrete performance.

TECHNICAL DATA

Density : 1.14 gm/ml ±0.02

Color: Light Yellow

Calcium Chloride: Nil

PH value: 7.5 (at 20 °C)

Packaging: Available in 220 kg drums or 1100 kg IBC's.

Storage/Shelf life: At least 1 year if stored in originally sealed packaging and protected from direct sunbeam, extreme heat and frost.