Product Data Sheet
Product No: 01.005/3

BETONAC®-BVP1

HIGH RANGE WATER-REDUCING & RETARDING SUPER PLASTICISER CONCRETE ADMIXTURE

Product Description

BETONAC®-BVP1 is a high efficiency Polycarboxylate Polymer based super plasticizer and is formulated to extend slump maintenance and offering very high workability concrete without segregation and to achieve high early compressive strength. It enables consistent manufacture of self-compacting concrete.

BETONAC®-BVP1 is available in different setting retardation for the use during Hot Seasons.

Uses

BETONAC®-BVP1 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.

It is used whenever a longer delay in setting time is required to ensure sufficient delivery, easy placement, and compaction such as in hot weather concreting, where delayed and controlled set will assure sufficient placement time and improve concrete quality.

BETONAC®-BVP1 extends slump life and concrete workability and provides superior concrete surface finish characteristics. It reduces bleeding and segregation where poor sand grading are unavoidable.

It saves cement in the region of 10% to 20%.

BETONAC®-BVP1 can be used to produce concrete with very low water/cement ratios, while maintaining normal levels of workability.

Advantages

- **Easy pumping** - Improves workability and cohesion and extends setting time. BETONAC®-BVP1 also provides protection against delays and stoppages.
- **In-situ piling** - Easy removal of formwork and avoidance of cold joints.
- **Workability** - Virtually self-compacting and self-levelling properties. BETONAC®-BVP1 speeds placing of concrete at construction works.
- **Improved cohesion** - Reduces bleeding and segregation where poor sand grading are unavoidable.
- **Cement saving** -Typically in the region of 10% to 20% and can be higher depending on aggregate and cement used.

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Standard

BETONAC®-BVP1 complies with ASTM C 494 Type A, D and G, DIN EN 934-2.

(ASTM C 494 requirements: Type A: water-reducing admixture, Type D: water-reducing and retarding admixture, Type G: water-reducing, high range, and retarding admixture).

Technical Data

Calcium Chloride: Nil

Packaging: BETONAC®-BVP1 is packed in 220 kg drums or in 1100 kg IBC's.

Storage / Shelf life: BETONAC®-BVP1 has a minimum shelf life of 1 year if stored in originally sealed packaging. It should not be exposed to direct sunbeam and protected against frost.

Application

Dosage

Typically between 0.8 to 1.8% of cement weight, but can be adjusted to meet extended spectrum of concrete performance requirements. **Trial mixes are recommended.**

It is recommended to add BETONAC®-BVP1 to the concrete mix near the end of batch sequence by automatic dispensing equipment.

Pretesting of concrete is recommended to optimize dosage rate, addition times in batch sequencing and concrete performance.

Compatibility

It is recommended not to use BETONAC®-BVP1 with Naphthalene and Melamine-based concrete admixtures. **Trial mixes are recommended.**

Note: BVP1 is available in different setting retardation as BVP2, BVP4 or BVP6.

LeycoChem LEYDE Products Range:

- **Concrete Admixtures**
- **Epoxies**
- **Water Proofing Systems**
- **Coatings and Sealants**
- **Cleaning Materials**
- **Roof - Tiling System**
- **Water Stops, Expansion Joints and Bridge Bearings**

Furthermore, our **Technical Advisory Service Team** is ready to help whenever needed.

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