



BETONAC[®]-BVS

HIGH RANGE WATER REDUCING RETARDING & SUPER PLASTICISER CONCRETE ADMIXTURE

DESCRIPTION

BETONAC[®]-BVS is a light brown ready to use aqueous solution based on organic compounds. It acts as a dispersing agent, breaking down the agglomerates of cement particles and enables water in the mix to perform more efficiently. BETONAC[®]-BVS delays the initial hydration of cement.

The use of BETONAC[®]-BVS depends on the project requirements and the type of cement, sand and aggregate used for each project.

USES

BETONAC[®]-BVS is designed to produce high workability concrete which is virtually self-levelling, and may be also used to promote high strength by facilitating large reduction of water content while maintaining workability. It is designed to delay and control the setting time of concrete . It is used wherever a delay in setting time is required to ensure sufficient delivery, easy placement and vibration or compaction time such as in hot weather concreting, where delayed and controlled setting assures sufficient placement time and improved concrete quality.

ADVANTAGES

- ◆ **In-situ piling** - easy removal of formwork and avoidance of cold joints.
- ◆ **Improved workability** - speeds placing of concrete and construction works.
- ◆ **Improved cohesion** - reduces bleeding and segregation where poor sand grading is unavoidable.
- ◆ **Easy pumping** – due to improved workability and cohesion and extended setting time. BETONAC[®]-BVS also provides protection against delays and stoppages.
- ◆ **Cement saving** - while at the same time maintaining the ultimate strength .

STANDARD

BETONAC[®]-BVS (used in hot seasons complies) with ASTM C 494 A, D and G, DIN EN 206-1, 3.1,10

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



APPLICATION

The correct quantity should be carefully measured by a dispenser. BETONAC®-BVS should be added with 25%- 30% of the mixing water at the third mixing sequence when the mix ingredients are wet.

Important Note: We highly recommend adding the additive at the final stage of the mixing process. No water to be added once the additive is used. Water will not increase the mix workability but will negatively affect the compressive strength of the mixture.

Dosage

BETONAC®-BVS is normally added at the rate from 0.8 % to 1.8 % of cement weight, depending on the retardation or workability required.

Longer setting times or higher temperatures require higher addition rates. Conversely, the addition rate will be lower for shorter retardation. **Trial mixes are recommended.**

Overdosing results in more retardation without affecting the ultimate strength.

Curing

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

Compatibility

BETONAC®-BVS is generally compatible with all other BETONAC® admixtures if added separately to the mix.

TECHNICAL DATA

Density : 1.16 gm/ml ±0.02

Color: Brown

Calcium Chloride: Nil

Air Entrainment: Less than 1% additional air is entrained.

Setting time: Initial and final setting time depend on temperature, cement type and dosage used.

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

Storage / Shelf life: BETONAC®-BVS 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.

Legal notes

Whilst information and/or specification contained herein is to the best of our knowledge true and accurate, and is based on many years of experience, we cannot accept any liability either directly or indirectly arising from the use of our products, whether or not in accordance with any advice, specification or recommendation given by us, as we have no direct or continuous control over how or where our products are applied.

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