

BETONAC[®]-BVS 2.2

WATER REDUCING HIGH RANGE- SUPER PLASTICISER AND RETARDING ADMIXTURE

Product Description

BETONAC[®]-BVS 2.2 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 2.2 delays the initial hydration of cement.

BETONAC[®]-BVS 2.2 is also available as a non-retarding admixture for Cold Seasons.

Uses

BETONAC[®]-BVS 2.2 is designed to produce high workability concrete which is virtually self-levelling and may be also used to promote high early and ultimate strength by facilitating large reduction of water content while maintaining workability. It is also designed to delay and control the setting time of concrete up to 10 hours and more depending on the dosage used. 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

- **Easy pumping** - improves workability and cohesion and extends setting time. BETONAC[®]-BVS 2.2 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. Speeds placing of concrete and construction works.
- **Improved cohesion** - reduces bleeding and segregation where poor sand gratings are unavoidable.
- **Cement saving** - typically in the region of 10% - 20% and can be higher depending on aggregate and cement used.

Standard

BETONAC[®]-BVS complies with ASTM C 494 A, D and G, DIN EN 206-1, 3.1,10

BETONAC[®]-BVS Non-retarding (used for cold seasons) complies with ASTM C 494 A & F

(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, Type F: water reducing high range admixture).

Technical Data

Calcium Chloride: Nil

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

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

Packaging: BETONAC[®]-BVS 2.2 is packed in 220 kg drums and in 1100 kg IBC's

Storage / Shelf life: BETONAC[®]-BVS 2.2 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

The correct quantity should be carefully measured by a dispenser. BETONAC®-BVS 2.2 should be added at the third mixing sequence when aggregate and cement are wet.

Dosage

BETONAC®-BVS 2.2 is normally added at the rate from 0.5% to 1.2% 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: Overdosing results in more retardation without affecting the ultimate strength.

Curing

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

Compatibility: BETONAC®-BVS 2.2 is generally compatible with all other BETONAC® admixtures if added separately to the mix.

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.

LEYDE PRODUCTS are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale 01.09.2009

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.