

BETONAC®-BVS

WATER REDUCING HIGH RANGE- SUPERPLASTIZISING AND RETARDING ADMIXTURE

Product 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 enabling the water in the mix to perform more efficiently. BETONAC®-BVS delays the initial hydration of cement.

Uses

BETONAC®-BVS 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 a large reduction in the water content while maintaining workability. It is also designed to delay and control the setting time of concrete up to 20 hours and more. It is used where ever a delay in setting time will ensure sufficient delivery, easy placement, vibration or compaction time such as in HOT WEATHER CONCRETING, where delayed and controlled set will assure sufficient placement time and improve concrete quality.

Advantages

- **Easy pumping** - Improves workability and cohesion and extends setting time. BETONAC®-BVS 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 used.

Standard

ASTM C 494 TYPE A,D,G DIN EN 206-1, 3.1, 10

Technical Data

Standards: BETONAC®-BVS complies with ASTM C 494 Type A +B + G and DIN EN 206-1. 3.1 10

Calcium Chloride: Nil

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

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

Setting time: Initial and final setting time is dependent on temperature, cement type used and the rate of dosage.

The graphs illustrate the approximate degree of retardation within the temperature range of 10 °C - 40 °C regardless of mix or type of cement until progressive deflection resulting from increasing loads is completed, and also eliminates cold joints.

LEYCOCHEM-IRAQ Baghdad

Tel.: 0750-4344200, Tel.:0770-8748222, Tel.:0781-3802151

Email: sales.leycochem.iraq@leyde.com

Email: admin.leycochem.iraq@leyde.com

www.leyde.com

LeycoChem LEYDE GmbH Germany

Industriestrasse 155

P.O. Box 501627

D-50999 Köln/Cologne

Tel.:+49(0)2236-96600-0

Fax:+49(0)2236-96600-10

Email: leycochem@leyde.com

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Product No: 01.005

Packaging

BETONAC®-BVS is packed in 220 kg metal drum and in IBC Containers

Storage / Shelf life

It should be protected from frost and direct sun BETONAC®-BVS has a minimum shelf live of 12 months in original sealed container.

Application

General information

BETONAC®-BVS will normally be added at the rate from 0,15 to 0,8 of cement weight 150 - 500 ml per 100 kg cement, depending on retardation or workability required.

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

Method of application

The correct quantity should be carefully measured by a dispenser. BETONAC®-BVS should be added directly to the mixer at the same time as the water.

Overdosing

Overdosing results in retardation. Ultimate strength will not be reduced and is generally increases (see curing)

Curing

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

Additional Information

The LEYDE range of Flooring Products includes specialized Admixtures for the cementations slabs and screeds, Bituminous membrane coatings "and a wide range of Polyurethane and Epoxy Resin Toppings, Coating and Sealer to meet a variety of Industrial uses and conditions. Separate data is available on these products and in addition, the Company provides a Technical Advisory Service supported by a team of specialist in the field.

Safety Instructions

Safety precautions

It contains no flammable ingredients. Refer to the MSDS Sheet available under www.leyde.com

Legal notes

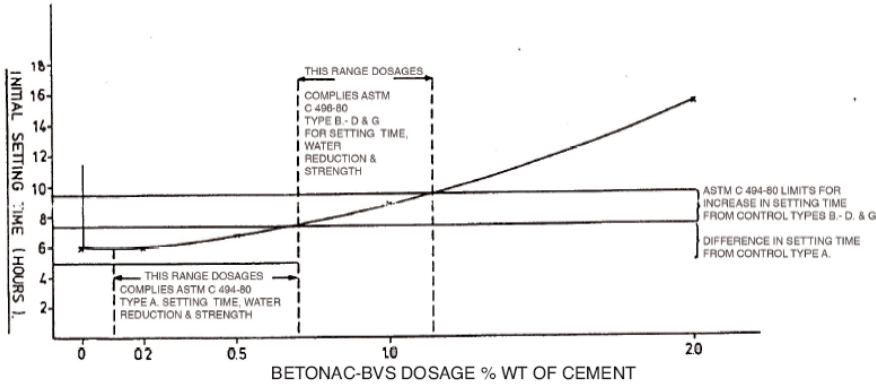
Whilst information and/or specification contained herein is to the best of our knowledge true and accurate, and is based on many years experience, we cannot accept any liability either directly or indirectly arising from the use of our products, whether or not in accordance with any advice, specification 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

FIGURES

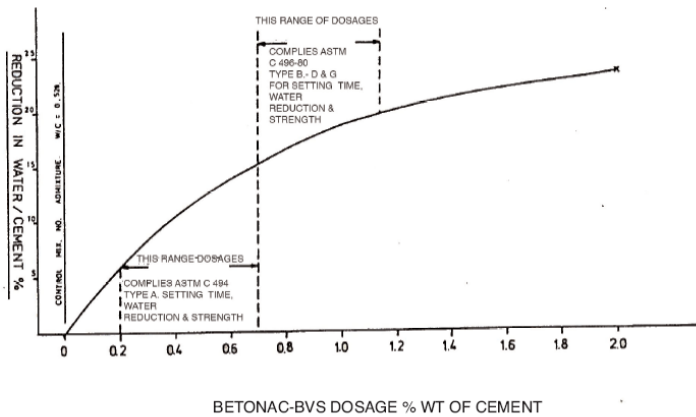
EFFECT ON INITIAL SETTING TIME OF CONCRETE WHEN BETONAC®-BVS IS USED AT VARIOUS DOSAGES. RESULTS FROM TESTS CARRIED OUT AT RAYMOND LABORATORY 18.2.82

CEMENT TYPE: LITCIEM O.P.C. CEMENT CONTENT 307 KG/m³ WORKABILITY 51cm TO 75cm SLUMP



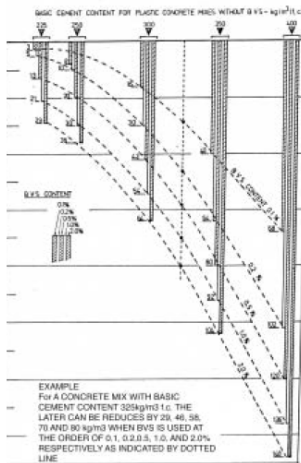
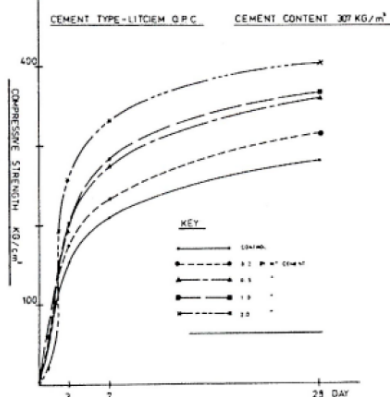
BETONAC-BVS %REDUCTION IN WATER/CEMENT RATIO WHEN VARIOUS DOSAGES USED

WORKABILITY OF CONCRETE CONSTANT TESTS DONE IN ACCORDANCE WITH ASTM C 494
CEMENT TYPE: LICIEM O.P.C. CEMENT CONTENT: 307KG/M³



COMPARISON OF CONCRETE STRENGTH WHEN BETONAC-BVS IS USED AT DIFFERENT DOSAGES. BATCH WEIGHTS THE SAME FOR ALL MIXES EXCEPT FOR WATER WHICH WAS REDUCED DEPENDING ON QUANTITY OF ADMIXTURE USED

PROSPECTED CEMENT SAVINGS DUE TO THE USE OF BETONAC-BVS IN PLASTIC CONCRETE MIXES



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