

# BETONAC®-BV

## WATER REDUCING PLASTICIZING ADMIXTURE FOR CONCRETE

### Product Description

BETONAC®-BV has strong plasticising and dispersing effects on cement, to produce flowing concrete without causing segregation or bleeding. Setting time of concrete will not be affected. BETONAC®-BV is based on selection of stabilised, sugar reduced lignosulfonates. When added to concrete mixes it improves dispersion on cement reducing agglomerate and exposes a larger surface area. The hydration reaction can proceed more efficiently, this effect is used to either improve workability, increases strength or reduces the cement content of concrete.

### Uses

BETONAC®-BV is a high performance plasticiser and is used where high degree of workability is required.

To achieve increased workability without loss of strength, increased strength without loss of workability, reduction in cement without loss of strength or workability. BETONAC®-BV is used in ready-mix plants, jobsite plants, block and concrete products, pavers and wherever concrete is produced from normal concrete and prestressed concrete.

### Advantages

- Improved workability - easier and economical concrete placement.
- Increased early compressive strength.
- Improved quality and reduced permeability.
- High cohesion minimises segregation and
- Strength specification and workability can be maintained with less cement.
- Increased flexural strength and bond to steel.
- Easier pumping, lower pumping pressure; prevents clogging and reduces friction in pipeline

### Technical Data

#### Characteristics

Chloride Content: nil

#### Note

BETONAC®-BV complies with ASTM C 494 - Type A and is manufactured according to DIN EN 934-2 (BV)

#### Packaging

BETONAC®-BV in 230 kg drums and IBC containers

#### Storage/Shelf life

12 months minimum in originally sealed container, when stored under shed.

## Product Data Sheet

Product No: 01.002

### Application

#### 1. Workability

This is achieved by the addition of BETONAC®-BV formulations without change to the mix proportions. Slight increase in strength will be obtained due the improved conditions of cement hydration and dispersion.

#### 2. Compressive Strength

The high performance plasticising properties of BETONAC®-BV can also be used to achieve substantial reduction in water cement whilst maintaining workability. These results increase the compressive strength of the concrete.

#### Dosage

The recommended dosages of BETONAC®-BV is between 0,2 - 0,5. However, at abnormal circumstances it may be necessary to increase the dosage. It is recommended to conduct trial test on site with the actual concrete mix, to determine the optimum dosage.

#### Effect of over dosage

An over dose of double the recommended amount of BETONAC®-BV can result in a slight retardation of initial set of concrete. The ultimate strength of the concrete will not be impaired and generally, be increased.

#### 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