

# BETONAC®-BVF

## SUPER PLASTICISER AND FLOWING CONCRETE ADMIXTURE

### Product Description

BETONAC®-BVF is a super plasticizer for use as a concrete admixture in all types of construction work. Based on modified naphthalene sulfonate and melamine condensate. When added to concrete mixes it acts as a powerful dispersing agent for the cement particles, which would otherwise tend to agglomerate. This effect, which is more powerful than conventional plasticizers, may be used either to improve workability to produce „flowing concrete“ or to increase strength by enabling the water content to be substantially reduced.

### Uses

BETONAC®-BVF is ideal for use in precast, prestress, bridge deck and any concrete where it is desired to keep the water / cement ratio to a minimum and still achieve a degree of workability necessary to provide easy placement.

### Advantages

- **Speed construction - increased workability speeds handling, filling of formwork and placing around congested reinforcement. Labour times reduced to a minimum.**
- **Increased strengths without increase in cement content or reduction in workability**
- **Improved quality - Reduces shrinkage by lower w/c ratios. Denser, closer textured concrete for improved durability and surface finish. Bleeding and segregation minimized.**
- **Non retarding - Concrete setting and formwork stripping times unaffected**
- **Easier pumping - lower pumping pressures prevent clogging and reduce friction in the pipeline**

### Standard

BETONAC®-BVF complies with ASTM C 494 A+F, DIN EN 206-1, 3.1,10 Types A & F (ASTM C 494 requirements: Type A, water reducing admixtures, Type F, water reducing high range).

### Technical Data

#### Setting time

Negligible effect at normal dosage rates

#### Air entrainment

does not entrain air

#### Calcium chloride

nil

#### Physical Performance

**Workability:** The addition of BETONAC®-BVF without reduction in the water content and with only minor mix re-design produces „collapsed slump concrete“ which will flow to fill formwork completely and produce denser hardened concrete, without decrease in compressive strengths. The flowing concrete properties last for 45 - 60 minutes, after which time the concrete behaves as it would without addition.

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