

# BETONAC<sup>®</sup>-VZ1

## SET RETARDER CONCRETE ADMIXTURE WITH MODERATE PLASTICIZING EFFECT

### Product Description

BETONAC<sup>®</sup>VZ 1 integral admixture for concrete, combines a powerful set retarder that retard the initial and final set of concrete and an efficient plasticizing effect. It improves workability and promotes accelerated hardening after setting, and high ultimate strength. BETONAC<sup>®</sup>VZ 1 is supplied as an aqueous solution or as power concentrate.

### Uses

BETONAC<sup>®</sup>VZ 1 is used as a retarding plasticizer in structural and mass concrete where controlled delay to initial and final set is of primary importance.

- Large volume pours.
- Long hauls.
- Hot weather concreting.
- In slip formed concrete.
- In areas of congested reinforcement where workability is of benefit.
- Construction joints without formwork.
- To enable continuous pours to be effected ensuring monolithic construction.

### Advantages

- **Controlled extension of setting times.**
- **Enable concreting in hot weather conditions.**
- **Improved workability without increased water content. Therefore easing placing and improving both the plastic and hardened properties.**
- **Reduced shrinkage and creep.**
- **Extends the time concrete is responsive to vibration, therefore helping to eliminate cold joints and honeycombing.**

### Technical Data

**Standards:** Complies with ASTM C494 - Type B, Institut of Structural Engineering Type VZ.

#### Appearance/Colour

Liquid or powder / yellow, light grey

#### Chemical Basis

Modified phosphates

#### Compatibility

BETONAC<sup>®</sup>VZ 1 can be used with all types of Portland Cement including Sulphate Resisting.

#### Density

1,2 kg/l

#### Packaging

210 kg drums, 25 kg and 50 kg bags. Bulkdelivery are available on request.

#### Specific Gravity

1.21 kg/l

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## Product Data Sheet

Product No: 01.008

### Storage/Shelf life

Liquid to be protected from frost. Powder store in dry conditions as for cement.

Min. 2 years when in original packing.

### Application

#### Dosage

0,2 - 2% by weight of cement. - Dependant on the desired properties.

The retardation achieved is related directly on dosage rate and is influenced by the type and quality of cement. It also depends on the temperature and water/cement ratio.

Field trials should be conducted to determine the optimum addition rates.

#### Surface Conditions

#### Method of application

BETONAC®VZ 1 liquid should be dispensed through a proprietary dispenser directly into the mixing water prior to its addition to the aggregates.

Accidental overdosing will not effect long term strength development. Concrete must be carefully protected from evaporation of water by Curesin curing compound.

#### Legal notes

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