

# BETONAC<sup>®</sup>-M2

## SUPERPLASTICIZER

### Product Description

BETONAC<sup>®</sup>-M2 is an anionic melamine poly-condensate, modified with naphthalene sulfonate id free of chloride and is non-toxic. It enhances the dispersion of cement agglomerates in water cement suspensions to produce more efficient cement hydration. This results in more flow able concrete, higher strength, more durable concrete and reduced creeping.

### Uses

BETONAC<sup>®</sup>-M2 is a high-range water reducing concrete admixture and is recommended for uses in precast, pre-stress and ready-mix concrete applications, where high strength and high slump flow able concrete is required.

### Advantages

- Higher strength using less cement without loss of workability.
- Provides superior concrete surface finish - fair faced concrete.
- Exceptional workability at low water / cement ratios.
- High early strength improvement.
- More efficient concrete placement.

### Technical Data

**STANDARDS:** According to DIN EN 934-2 FM (Superplasticizer) and ASTM C 494 Type A and Type F.

**Calcium chloride:** nil

**Toxicity:** non-toxic

#### Packaging

BETONAC<sup>®</sup>-M 2 is available in drums of 240 kg and IBC containers of 1250 kg

**Specific Gravity:** 1.19

#### Storage / Shelf life

12 months in original packaging and protected from extreme temperatures

### Application

#### Dosage

Typical dosage ranges from 0.4% to 1.6% of cement weight. At the lower dosage rate it meets ASTM C494 Type A water-reducing admixtures and at the higher rates ASTM C494 Type F high-range water reducing. Super plasticizer dosage rates should be determined according to mix design and work requirements, such as flow ability, workability, slump and strength. For optimum performance it is recommended to add BETONAC<sup>®</sup>-M 2 to the concrete mix close to the end of the batch sequence. Pretesting of concrete mix should be performed before use.

## Product Data Sheet

Product No: 01.024

### Method of application

BETONAC®-M2 can be added at the plant or job site directly into the mixer.

If added at the plant, it should be realized that the effectiveness will begin to decrease after 20 to 40 minutes depending on type of cement, concrete condition and ambient temperature.

If accidentally the concrete can not be discharged from the trans mixer, the concrete mix can be re-dosed to re-gain the flow ability and workability. If the BETONAC®-M 1 is added at the project site to the trans mixer, the concrete should be mixed for a minimum period of 5 minutes at 8 to 15 rpm.

### Legal notes

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