

### Description:

BC 106N is the first generation of admixtures in the water-reducing group. This material disperses fine particles in the concrete mixture, making the water more efficient and make the concrete mixture flowable. Depending on the dosage, it can provide both water-reducing and high-range water-reducing properties.

### Reference Standards:

- ISIRI 2930-2: Table 3
- ASTM C1017
- ASTM C494-Type M
- EN 934-2

### Applications:

- Extending concrete workability time
- Ready-mix concret
- Mass concrete such as dam bodies and foundations
- Large beams, bridge decks, etc.
- Where reduced vibration helps avoid cold joints
- High reinforcement density
- Increasing bonding in concrete with poor gradation
- Pumped concrete
- Adjusting concrete workability in batching plants

### Properties and Effects:

- Improves concrete durability
- Increases concrete slump/workability
- Prolongs working time
- Facilitates pumping and reduces equipment wear
- Reduces water-to-cement ratio by 5% to 12%
- Increases concrete cohesion
- Reduces permeability
- Compatible with all types of Portland and pozzolanic cements
- Prevents creep and shrinkage
- Produces smooth, uniform surfaces for exposed concrete

### Dosage:

Recommended dosage is between 0.5% to 1.5% of cement weight (0.5 to 1.5 kg per 100 kg of cement). Final dosage should be determined via site trials considering climate, aggregate, and cement type.

### Usage Instructions:

102N is ready-to-use and should be added during mixing. Best effect occurs when 50% to 70% of mixing water is already added. Never add to dry materials. Mix at high speed for 60 seconds.

Store in original packaging and proper conditions. Shelf life up to 12 months at temperatures above +5°C.

### Physical and Chemical Properties:

- Color: Brown
- Physical State: Liquid
- Specific Gravity:  $1.05 \pm 0.05 \text{ gr/cm}^3$
- pH: Around 7
- Solubility: Soluble in water
- Chloride ion: None

### Storage:

- Conditions: Dry, covered place
- Shelf Life: 12 months in original packaging
- Packaging: 20 kg container, 220 kg drum

### Health and Safety

Do not ingest. Avoid prolonged skin contact. If contact occurs, wash with water. If ingested, seek medical help. Non-flammable.

### Technical Considerations

- Optimal dosage must be determined via site trials
- Never add to dry materials
- For simultaneous use with other admixtures, consult Concrete Chemistry Research Center



بَتْن شیمی

خاورمیانه

BETON  
CHIMIE

ISO 90001 : 2015

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