BETONAC® 250

HIGH PERFORMANCE WATER REDUCER ADMIXTURE

DESCRIPTION
BETONAC® 250 is a modified polycarboxylate ether based super plasticizer used for producing ready mix concrete to reduce water and give high ultimate strength.

USES
BETONAC® 250 is designed to use in:

- Concrete elements with high early and final strength
- To significantly improve the workability of site mixed and precast concrete without increasing water demand.
- To control and retard the setting time.

ADVANTAGES
- Permits easier construction with quicker placing and compaction and reduced labor costs without increasing water content.
- Improves surface finish.
- Improved cohesion and particle dispersion minimizes segregation & bleeding and improves pumpability.
- Very good workability with minimum vibration.
- Water reducing about 25%.
- Chloride free, safe for use in prestressed and reinforced concrete.
- Can be used in all seasons.

STANDARDS
BETONAC® 250 complies with ASTM C 494, Type F & G
(ASTM C 494 requirements: Type F: high range water-reducing admixture,
Type G: High range water-reducing and retarding admixture).

ADDITION
The correct quantity should be carefully measured. Half dosage of BETONAC® 250 prefer to be added at the first mixing sequence with 75% of the mixing water then the second half of the dosage should be added at the final sequence with 25% of the mixing water.
Important Note: If the concrete pouring process is delayed for any reason for a period longer than expected, An additional quantity of BETONAC® 250 should be added to the truck mixer in order to re-plasticize the mixture without effecting the compressive strength and to avoid the concrete initial setting into the mixer.

COMPATIBILITY
BETONAC®250 can be successfully used in mix designs utilizing pozzolanic materials such as fly ash and GGBFS.

DOSAGE

BETONAC® 250 is normally added at the rate from 900 ml to 1800 m for each 100kg of cement, depending on the retardation or workability required.
Longer setting times or higher temperatures require higher addition rates. Conversely, the addition rate will be lower for shorter retardation. Trial mixes are recommended.
Overdosing results in more retardation and higher workability. Segregation might occur in some cases, please consult our specialized Lab. Engineer in this case.

TECHNICAL DATA

Appearance: Light Brown Liquid

Density: 1.05 ± 0.02 gm/ml

Setting time: Initial and final setting time depends on temperature, cement quantity and dosage used.

Packaging: BETONAC® 250 is packed in 20-liter Jerrycans or 1000-liter IBCs

Storage & Shelf life: BETONAC® 250 has a minimum shelf life of 1 year if stored in originally sealed packaging. It should not be exposed to direct sunbeam and protected against frost.

LIMITATIONS

- The standard rules of good concreting practice, concerning production as well as placing are to be followed, refer to relevant standards, Fresh concrete must be cured properly.
- BETONAC® 250 is highly effective as a single admixture or in combination with other admixtures except with the naphthalene-based water reducers, please contact our technical sales representative for further information.
- When BETONAC® 250 added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter.

PRECAUTIONS

BETONAC® 250 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.
Suitable protective gloves and goggles should be worn.
Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention

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 of 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.