



BETONAC[®] 200P - 1

HIGH RANGE WATER REDUCING, RETARDING & SUPERPLASTICIZER FOR READY MIX CONCRETE

DESCRIPTION

BETONAC[®] 200P-1 is a modified polycarboxylate ether based super plasticizer used for producing ready mix concrete to reduce water and give high workability.

USES

BETONAC[®] 200 P-1 is designed to use in:

- Concrete works that request good workability.
- Concrete elements with high strength.
- To control and retard the setting time.
- Concrete paving.

ADVANTAGES

- Easy removal of formwork without causing problems of any kind
- Improves surface finish
- Reduces bleeding and segregation
- Very good workability with minimum vibration
- Improves early and long-term compressive strengths
- Water reducing about 20%
- Can be used in all seasons.

STANDARDS

BETONAC[®]200P-1 complies with ASTM C 494, Type F. And when it is used in hot seasons, it complies with ASTM C 494, Type G.

(ASTM C 494 requirements: Type F: high range water reducing, Type G: high range water reducing and retarding admixture).

ADDITION

The correct quantity should be carefully measured. Half dosage of BETONAC[®] 200P-1 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[®] 200P-1 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.

COMBINATION WITH POZZOLANIC MATERIALS

BETONAC[®]200P-1 can be successfully used in mix designs utilizing pozzolanic materials such as fly ash and GGBFS.

**DOSAGE**

BETONAC® 200P-1 is normally added at the rate from 900 ml to 1800 ml (we recommend 1000ml) 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® 200P-1 is packed in 20 liter Jerrycans or 1000 liter IBCs

Storage & Shelf life: BETONAC® 200P-1 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® 200P-1 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® 200P-1 added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter.
- If the concrete mixture starts to set, an additional quantity of BETONAC® 200P-1 should be added to the truck mixer in order to re-plasticize the mixture without effect the compressive strength.

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.