



BETONAC[®] 350-SR

HIGH RANGE WATER REDUCER AND SLUMP RETAINER FOR READY MIX CONCRETE

DESCRIPTION

BETONAC[®] 350-SR is a high-performance superplasticizer intended for applications where slump retention and increased compressive strengths are required for ready mix concrete applications.

USES

- Hydration control and high workability in various construction projects such as Power stations, commercial buildings, residential complexes ... etc.
- High rise pumped concrete.
- In Swimming pools, water tanks, bridges and piling applications.
- Concrete in hot climates.

ADVANTAGES

- Produces high-quality concrete
- Increased compressive and flexural strength with high workability
- Increased impermeability and durability of concrete
- Improved resistance to carbonation
- Reduced shrinkage and creep
- Increased resistance to aggressive atmospheric conditions
- Improved adhesion to reinforcing and steel bars
- Improve surface finishing by reduce concrete cracks and segregation.

STANDARDS

BETONAC[®] 350-SR complies with ASTM C 494, Type G
(ASTM C 494 requirements Type G: water-reducing, high range and retarding admixture).

APPLICATION

The correct quantity should be carefully measured. Half dosage of BETONAC[®] 350-SR should 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.

In some instances when addition to ready mix concrete on site, BETONAC[®] 350-SR can be added directly in the truck mixer and mixed at maximum speed for an extra 10 minutes.

DOSAGE

BETONAC[®] 350-SR is normally added at the rate from 800 ml to 2000 ml for each 100kg of cement, depending on the workability required.

Longer setting times or higher temperatures require higher addition rates. Conversely, the addition rate will be lower for less workability. Trial mixes are recommended.



Overdosing results in higher workability. Segregation might occur in some cases, please consult our specialized Lab. Engineer in this case.

Important Note: If the concrete pouring process is delayed for any reason for a period longer than expected, An additional quantity of BETONAC® 350-SR 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® 350-SR is generally compatible with most types of Portland cement and can be successfully used in mix designs utilizing pozzolanic materials such as fly ash and GGBFS.

BETONAC® 350-SR can also be used with combination of other types of admixtures except with the naphthalene-based admixtures.

LIMITATIONS

- BETONAC® 350-SR does not contain chloride or other steel corrosion promoting ingredients, it may therefore be used without any restrictions for reinforced and prestressed concrete construction.
- When BETONAC® 350-SR added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter.
- BETONAC® 350-SR 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.

TECHNICAL DATA

Appearance: Light Brown Liquid

Density: 1.07 ± 0.02 gm/ml

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

Packaging: BETONAC® 350-SR is packed in 10-liter Jerrycans or 1000-liter IBCs

Storage & Shelf life: BETONAC® 350-SR 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.

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.