



# BETONAC<sup>®</sup> 567-SR

## HIGH RANGE WATER REDUCER & SLUMP RETAINER SUPERPLASTICIZER FOR READY MIX CONCRETE

### DESCRIPTION

BETONAC<sup>®</sup> 567-SR is a third-generation super plasticizer concrete admixture that increases the ultimate strength of the concrete by reducing the mixing water highly and brings high fluidity and slump retention to the concrete. It is specially designed with Multi-Carboxylate Ether with long lateral chains that improve greatly the dispersion of cement particles.

### USES

- High rise concrete applications
- Mass concrete
- High durable concrete
- Concrete in hot climates
- Concrete with high resistance against aggressive media

### PROPERTIES

- Permits reduction in amount of water normally required for a given workability.
- BETONAC<sup>®</sup> 567-SR provides protection against any delays and stoppages.
- Enables development of high strength concrete other than by cement addition.
- Provides flow ability (greater than 200mm slump) of fresh concrete that does not segregate while maintaining desired water-cement ratio.
- Excellent workability - excellent surface appearance.
- Good adhesion - ease of pumping without bleeding.

### STANDARDS

BETONAC<sup>®</sup> 567-SR complies with ASTM C 494, Type G (ASTM C 494 requirements, Type G: high range water reducing and retarding admixture).

### APPLICATION

The correct quantity should be carefully measured. Half dosage of BETONAC<sup>®</sup> 567-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.

### COMPATIBILITY

BETONAC<sup>®</sup> 567-SR can be used with all types of Portland cement, and it successfully used in mix designs utilizing pozzolanic materials such as fly ash and GGBFS.

**DOSAGE**

BETONAC® 567-SR is normally added at the rate from 700 ml to 1500 ml for each 100kg of cement, depending on the retardation or workability required.

Longer setting times or higher temperatures may 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.

**Important Note: If the concrete pouring process is delayed for any reason for a period longer than expected, An additional quantity of BETONAC® 567-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.**

**TECHNICAL DATA**

**Appearance:** Light Brown Liquid

**Density:** 1.10 ± 0.02 gm/ml

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

**Packaging:** BETONAC® 567-SR is packed in 20-liter Jerrycans or 1000-liter IBCs

**Storage & Shelf life:** BETONAC® 567-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.

**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® 567-SR cannot be used in combination with naphthalene base water reducing agent. If it is used in combination with other kinds of admixtures, it should be confirmed in advance by experiment.
- When BETONAC® 567-SR added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter.
- For self-compacting concrete, suitable mix design must be considered before application, suitability tests must be performed

**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.