



BETONAC[®] RND

HIGH RANGE WATER REDUCING SUPER PLASTICIZER CONCRETE ADMIXTURE

DESCRIPTION

BETONAC[®] RND is a brown ready to use aqueous solution based on organic compounds. It acts as a dispersing agent, breaking down the agglomerates of cement particles and enables water in the mix to perform more efficiently.

The use of BETONAC[®] RND depends on the project requirements and the type of cement, sand and aggregate used for each project.

AREA OF USAGE

BETONAC[®] RND is designed to:

- Produce high workability concrete with minimum vibration.
- Promote high strength by facilitating reduction of water content of the concrete mix by 15% - 30% (depends on the dosage used) while maintaining workability.
- Producing concrete slabs and footings.

ADVANTAGES

- **Increased slump** - improves ease of placement and reduces labor costs.
- **Very good workability** – Very good surface appearance.
- **Reduced water:cement ratio** - reduces permeability and increases durability.
- **Improved cohesion** - reduces bleeding and segregation and improves surface finish.
- **Easy pumping** – due to improved workability and cohesion.
- **Cement saving** - while at the same time maintaining the ultimate strength.

STANDARDS

BETONAC[®] RND complies with ASTM C 494, Type F & G

(ASTM C 494 requirements: Type F: High range water reducing.

Type G: water-reducing, high range and retarding admixture).

COMPATIBILITY

BETONAC[®] RND is generally compatible with most types of Portland and slag cement.

BETONAC[®] RND should not be used with a mixture contains poly carboxylic based additive.



ADDITION

The correct quantity should be carefully measured. It is preferred to add BETONAC® RND at the final step of mixing. Or Half dosage of BETONAC® RND should be added at the first mixing sequence with 50% of the mixing water then the second half of the dosage should be added at the final sequence with 50% 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® RND 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.

DOSAGE

BETONAC® RND is normally added at the rate from 850 ml to 2000 ml (we recommend 1000ml) for each 100kg of cement, depending on the workability required.

TECHNICAL DATA

Appearance: Brown Liquid

Density: 1.20 ± 0.02 gm/ml

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

Storage & Shelf life: BETONAC® RND 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.