



# BETONAC® TA-2

## HIGH RANGE WATER REDUCING, RETARDING & SUPER PLASTICIZER CONCRETE ADMIXTURE

### DESCRIPTION

BETONAC® TA-2 is a high-performance liquid concrete admixture formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used to improve workability and to increase ultimate strengths with high levels of water reduction in the concrete mix.

### USES

BETONAC® TA-2 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% - 25% while maintaining workability.
- Producing concrete slabs and footings.
- Delay and control the setting time of concrete. It is used wherever a delay in setting time is required to ensure sufficient delivery, easy placement and vibration or compaction time such as in hot weather concreting, where delayed and controlled setting assures sufficient placement time and improved concrete quality.

### ADVANTAGES

- **Increased slump** - improves ease of placement and reduces labor costs.
- **Improved workability** - speeds placing of concrete and construction works.
- **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 and extended setting time. BETONAC® TA-2 also provides protection against delays and stoppages.
- **Cement saving** - while at the same time maintaining the ultimate strength.

### STANDARDS

BETONAC® TA-2 complies with ASTM C 494, Type G

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

### COMPATIBILITY

BETONAC® TA-2 is generally compatible with most types of Portland and slag cement, except the rapid hardening Portland cement.

BETONAC® TA-2 should not added to concrete contains poly carboxylic based additive.

**ADDITION**

The correct quantity should be carefully measured. BETONAC® TA-2 should be added at the final mixing step 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® TA-2 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® TA-2 is normally added at the rate from 700ml to 1500ml 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.

**TECHNICAL DATA**

**Appearance:** Brown Liquid

**Density:** 1.20 ± 0.02 gm/ml

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

**Packaging:** BETONAC® TA-2 is packed in 10-liter Jerrycans or 1000-liter IBCs

**Storage & Shelf life:** BETONAC® TA-2 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.