

Apr 2024 Version

# BestFlow R332

High Range Water Reducing and Set Retarding Concrete Admixture

## Description:

- BestFlow R332 is used as a highly effective superplasticizer with long slump retention, suitable for the hot climate conditions in Viet Nam.
- BestFlow R332 complies with TCVN 8826:2011 Type D&G.

## Application: BestFlow R332 is used for this concrete:

- Ready-mixed concrete, long-distance transport concrete, long-time construction.
- Mass concrete, concrete working in hot climate.
- Bored pile concrete, dense steel reinforcement concrete, high strength concrete ( $\geq 30$  MPa).

## Advantages: BestFlow R332 has the following outstanding features:

### As a superplasticizer:

- Substantial improvement in flowability of concrete without increased water/cement ratio.
- Avoidance the risk of segregation of concrete mix in place.
- The increased plasticity of the concrete mixture makes it easier to work and vibrate...
- Reduced shrinkage.
- Suitability for climate conditions in Viet Nam.

### As a strength enhancer:

- Significant increase of early and final strength of concrete.
- Allow substantial cement reduction without altering slump and ultimate concrete strength.
- Shorter placing time and accelerated the progress of projects.
- Reduced expenses for curing concrete.

## PRODUCT INFORMATION:

|                          |   |
|--------------------------|---|
| <b>Appearance:</b>       | Viscous liquid, light yellow to light brown appearance.   |
| <b>Chemicals base:</b>   | Polycarboxylate ester.  |
| <b>Density @ 25°C:</b>   | 1.06 ± 0.02.  |
| <b>pH:</b>               | 5.0 ± 1.0.  |
| <b>Chloride content:</b> | < 0.1%  |
| <b>Dosage:</b>           | <b>Normal dosage:</b> 0.8 ÷ 1.5 liters per 100 kg of cement.<br><b>Typical dosage:</b> 1.0 liter per 100 kg of cement. However, it is possible to use it at higher dosages in special requirements. |
| <b>Water reduction:</b>  | $\geq 20\%$ (1.0 liter/ 100 kg cement)  |
| <b>Shelf life:</b>       | 12 months from the date of manufacturing in unopened condition.   |

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**Storage condition:** Dry and cool place. Avoid frost and direct sunlight.

**Packaging:** 210 litres/ drum, 1000 liters/ IBC tank or on request.

**Compatibility:** Compatible with the most common cement, especially with cement have high alkalinity property and high water absorption property.

#### Dispensing:

- BestFlow R332 can be added directly to the pre-quantified water before being added to a dry concrete mixture or separately to the freshly mixed concrete.
- When added directly to wet concrete (pre-mixed with water), the plasticizing ability of BestFlow R332 will increase significantly and the minimum mixing time must reach 80 revolutions of the mixing tank (or mixing pad).
- Possible to combine with other concrete admixtures but must be quantified and put into concrete separately for each type. Must be conducted a trial in actual conditions on site before use.

#### Overdosing:

- When overdosed, its flowability will be increased (might be segregated to concrete mix), and setting time will be extended depending on the cement content and temperature. However, if proper curing must be ensured the physical performance of concrete and final strength will be not impaired.
- Due to the extension of setting and hardening time the curing must be done properly. Don't impact the steel reinforcement or framework during a set time of the concrete mixture.

#### Notice:

- Specific pre-mix testing is required for each use. Use mixers suitable for different types of mortar. The mortar should not be mixed by hand to ensure uniformity of the mixture.

#### Ref distribution:

It is possible to request a consultation for each specific use from the company's technical staff when required.

#### Health and Safety information:

- BestFlow R332 is non-flammable. PPEs must be worn when applying. BestFlow R332 could have an allergy to sensitive skin if they contact for a long time.
- If eyes or mouth are affected wash with clean water and go to medical attention immediately.
- Avoid contact with foodstuffs and utensils. Keep out of reach of the children.

#### Disclaimer:

*The technical information and application instructions in documents of BESTMIX are based on BESTMIX's current knowledge and practical experience. The information here only describes the general nature of the product, so users should test the product for each purpose. BESTMIX has the right to change the features of our product, user must always refer to the latest technology product.*

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