

BestFlow R322

2018 Version

High-range water-reducing and set retarding concrete admixture

Description:

- BestFlow R322 is a highly effective superplasticizer with long slump retention, suitable for the hot climate conditions in Viet Nam.
- BestFlow R322 complies with ASTM C494 Type D&G.

Recommended uses: BestFlow R322 is used for the following types of concrete:

- Ready-mixed concrete, long-distance transport concrete, long-time construction.
- Mass concrete, concrete working in a hot climate.
- Concrete with compressive strength up to 50Mpa.

Advantages: BestFlow R322 affects the following properties :

As a superplasticizer:

- Increases concrete mobility (slump) without increasing the water/cement ratio.
- Does not increase the risk of segregation (separation of water) during concreting.
- Increase the plasticity of concrete, easy to construct, and easy to compact...
- Increase the density of concrete, increase the waterproofing ability, and improve the concrete surface quality.
- Minimize shrinkage, and cracking of the concrete surface.
- Suitable for Vietnam's climate conditions.

As a strength enhancer:

- Significant increase in early strength and final strength of concrete.
- Allow reducing the dosage of cement without altering slump and concrete strength.
- Shorten progress and accelerated the progress of projects.
- Reduce the cost of concrete maintenance.

Approval: All testing is tested following the VietNam's conditions.

PRODUCT INFORMATION

Supplies form: Viscous liquid, light brown appearance.

Chemical composition: Polycarboxylate ester.

Specific gravity @25°C: 1.06 ± 0.02 .

pH value: 5.0 ± 1.0 .

Chloride content : Not detected.

Consumption : **Range:** 0.8 ÷ 1.5 liters per 100 kg of cement.
Typical consumption: 1.0 liter per 100 kg of cement. However, it is possible to use it at higher consumption in special requirements.

Packaging : 210 liters/ barrel, 1000 liters/ IBC tank, or as required.

Storage : Dry and cool place. Avoid frost and avoid direct sunlight.

Shelf life: 12 months in unopened conditions.

Compatibility : Compatible with general cement.

PROPERTIES

Water reduction: $\geq 18\%$ (at 1.0 liter/100 kg of cement).

GUIDE TO APPLICATION

- BestFlow R322 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 R322 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.

Overconsumption :

When overconsumption, its mobility will be increased (which might lead to bleeding), and the setting time will be extended. However, if a proper maintenance process must be ensured the physical performance of concrete and final strength will be not impacted.

Note: 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 mix.

Cautions:

- Must be conducted a trial of concrete mix design in the Lab before use depending on the purposes.
- Use the appropriate mixer and don't mix by hand to ensure the consistency of concrete.

Reference formulation:

Please consult the BestMix Technical Service for dosage rates to suit individual mix designs if required.

Health and Safety:

- BestFlow R322 is non-flammable. It could make an allergy to sensitive skin if the contact is in prolonging the time. Should wear labor protection when applying.
- If eyes or mouth are affected wash with plenty of water and obtain medical attention immediately.
- Avoid contact with foodstuffs and utensils. Keep out of reach of the children.

Statement of responsibility

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.