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# **BestFlow R354**

Superplasticizing and slump retention concrete admixture

# **Description:**

 BestFlow R354 is a superplasticizer with long slump retention, suitable for producing highstrength concrete at a high temperature in Viet Nam. It complies with ASTM C494 Type D&G.

**Uses:** BestFlow R354 is used for the following types of concrete:

- Ready-mixed concrete, concrete which have to be transported long-distance, and install for a long time. Mass concrete, concrete that works in a hot climate.
- Bored pile concrete, dense steel reinforcement concrete, concrete with compressive strength up to 50Mpa.

Advantages: BestFlow R354 affects the following concrete properties:

# As a superplasticizer:

- Increases concrete mobility (slump) without increasing the water/cement ratio.
- Increases the slump of concrete to greater than four hours.
- Do not increase the risk of segregation (separation of water) during concreting.
- Increase the plasticity of concrete, easy to construct, 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.

# As a strength enhancer:

- Significant increase of 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.

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

## **SPECIFICATION**

**Appearance:** Viscous liquid, light brown color. Chemicals base: Polycarboxylate ester modifier. Specific gravity @25°C:  $1.07 \pm 0.02$ . pH value:  $4.5 \pm 1.0$ .

**Chloride content:** < 0.1%.

Increases setting time: > 120 minutes.

**Normal dosage:** 0.8 ÷ 1.2 liters per 100 kg of cement. Dosage:

**Typical dosage**: 1.0 liter per 100 kg of cement. However, it is

possible to use it at higher dosages in special requirements.

# **BESTMIX CORPORATION**

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Water reduction:	≥ 25% ( at 1.0 liter/100 kg of cement).
Shelf life:	12 months from the date of manufacturing in unopened conditions.
Storage :	Dry and cool place. Avoid frost and avoid direct sunlight.
Packaging :	210 liters per drum, 1000 liters per tank, or as required.
Compatibility :	Compatible with the most general cement.
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# Dispensing:

 BestFlow R354 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 will increase significantly and the minimum mixing time must reach 80 revolutions of the mixing tank. 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.

# Overdosing:

When overdosed, 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.

**Notes:** Do not impact the steel reinforcement or framework during a set time.

#### Notice:

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 consistency of concrete.

#### Reference formulation:

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

# **Health and Safety information:**

BestFlow R354 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.

The disposal of products should comply with the local requirements on the environment.

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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