

FLOREY[®] FRPD-18

Polycarboxylate Superplasticizer Powder

High Sustained-Release Water-Reducing Admixture

FRPD-18 is a new high sustained-release type polycarboxylate superplasticizer powder, which can effectively improve the adsorption and dispersion ability of superplasticizer and its adaptability to concrete raw materials. and has the advantages of moderate water reduction rate, excellent plastic retention and small slump loss. At the same time, with the continuous hydration of cement, more carboxyl groups can be released to disperse cement particles continuously, and the concrete has the advantages of excellent plastic retention and small slump loss. The water reduction rate of concrete is $\geq 25\%$,

FRPD-18 admixture meets ASTM C 494/C494M requirements for Type D water-reducing and retarding and Type S specific performance admixtures.

Application Performance

Recommended for use in:

1. Concrete where high flowability, high-early and ultimate strength and increased durability are needed
2. self-compacting concrete
3. Concrete where normal, mid-range, or high-range water-reduction is desired
4. self-leveling concrete
5. Concrete where normal setting times are required
6. 4x4' Concrete for fast track Construction
7. Pervious Concrete
8. Self-consolidating grout

Packing & storage

25kgs/bag, paper plastic composite bag. Shelf life is 1 years.

It should be protected from sun and rain, fire and moisture when transportation and storage.

Technical Support

During the preparation of various formula systems for this product, the Florey technical team can provide technical consultation, technical tracking and long-term optimization of the formula system.

Product specification

(Temperature: 25°C, Humidity: 50%)

Items	Standard
Appearance	White or slightly yellow powder
Bulk density (loose) g/L	608.4 ± 0.1
Specific gravity (20% solution)	1.034 ± 0.001
pH(20% solution)	3.17 ± 0.01

Features

1. Dosage flexibility for normal, mid and high-range water reduction
2. Reduced water content for a given slump
3. Produces cohesive and non-segregating concrete mixture
4. High strength growth rate
5. Providing faster setting times and strength development
6. Enhanced finishability and pumpability.

Benefits

Providing economic benefits to the entire construction team through higher productivity and reduced variable cost.

Henan Fuluorui New Materials Co., Ltd.
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<https://floreyconcrete.com>

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Guidelines for Use

Dosage: The common dosage is 0.10%-0.30% (based on the total amount of cementitious materials). The best dosage shall be determined by test according to the engineering materials and characteristics. The dosage range is applicable to most mid to high-range concrete mixtures using typical concrete ingredients. However, variations in job conditions and concrete materials, such as silica fume, may require dosages outside the recommended range.

Mixing: FULUORUI Polycarboxylate superplasticizer powder admixture can be added to the mixing water during use, or added to the concrete mixer at the same time as the mixing water. It is recommended to add it to concrete and other materials after compounding. Before use, users determine the use method and conditions of the product through their own test and compounding technology.

Storage and Handling

Storage Temperature: FULUORUI polycarboxylate superplasticizer powder admixture should be stored in 10°C-40°C temperature environment, without direct sunshine, without getting wet in the rain and leaking water, without mixing impurities, without evaporation of water. If FULUORUI polycarboxylate superplasticizer powder admixture freezes, thaw at 10°C or above and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation.

Shelf Life: FULUORUI polycarboxylate superplasticizer powder admixture has a minimum shelf life of 12 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact us regarding suitability for use and dosage recommendations if the shelf life has been exceeded.

Additional Information

This information is based on our present state of knowledge and is intended to provide general notes about our products and their use only. It should not therefore be construed as guaranteeing the consistence or permanency of the products or specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.

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