TECHNICAL DATA SHEET

FLOREY® Polycarboxylate Superplasticizer

Polycarboxylate Superplasticizer(Powder) FRPD-09

Comprehensive Type Water-Reducing Admixture

Supplier: Luoyang Florey Import and Export Co., Ltd.
Website: www.floreyconcrete.com

Product Description

FRPD-09 is a comprehensive water reducing type polycarboxylate superplasticizer powder made of vinyl polyoxyethylene ether and small monomer through free radical polymerization. FRPD-09 can effectively improve the adsorption and dispersion ability of the superplasticizer and its adaptability to concrete raw materials, and has the advantages of moderate water reduction rate, excellent plastic retention and small slump loss. The water reduction rate of concrete is ⩾25%, which can ensure the excellent workability, high strength and excellent durability of prepared concrete. It can be widely used in pumped concrete, high-flow self-compacting concrete, high-strength concrete and commercial concrete. FRPD-09 admixture meets ASTM C494/C494M requirements for Type A, water-reducing, and Type F, high-range water-reducing admixtures, Type G,High-range water-reducing and retarding admixture.

Applications

- Concrete where high flowability, high early and ultimate strengths and increased durability are needed
- Self-compacting concrete
- Concrete where normal, mid-range, or high-range water-reduction is desired
- Self-leveling concrete
- Concrete where normal setting times are required
- Fast-track construction concrete
- Pervious concrete
- Self-consolidating grout

Product Characteristics

- Moderate water reduction rate, excellent plastic retention and small slump loss
- Good adaptability to concrete raw materials
- Powder form, easy to transport and store

Product Specification

(Temperature: 25°C, Humidity: 50%)

Item	Specification
Main components	Vinyl polyoxyethylene ether-acrylic acid copolymer, water
Appearance	White or slightly yellow powder
Odour	Slight odour
Bulk density (loose) g/L	652±0.1

Henan Fuluorui New Materials Co., Ltd.
Luoyang Florey Import and Export Co.,Ltd
https://www.floreyconcrete.com
ROOM 01, BUILDING 8, JUNHE YUNGU, SOUTHEAST CORNER OF THE INTERSECTION OF GUANGWU AVENUE AND LANTAI ROAD, YIBIN DISTRICT, LUOYANG CITY, HENAN PROVINCE 471000 Tel: +86 0379-68883868 Fax: +86 0379-68883868
TEL: +86 13783184240 E-mail: lucylu@floreyconcrete.com

Specific gravity (20% solution)	1.034±0.001
pH (20% solution)	4.5±0.5
moisture content	⩽3%

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: Florey polycarboxylate superplasticizer powder 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 Transport

Storage temperature: The product should be stored at 10°C-40°C, protected from direct sunshine, rain and moisture, and kept free from impurities. Keep containers tightly closed. Do not store above 50°C.

Shelf life: The product 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.

Transport: The product is not dangerous goods and may be transported as general cargo by sea, road, rail or air. Prevent leakage; protect from moisture, rain and sunshine during transport.

Safety

This product is not a hazardous chemical and has no GHS classification hazards. The risk is low under normal operating conditions; gloves, safety glasses and a dust mask are recommended during handling to avoid inhaling dust, eye contact and prolonged skin contact. Transport as general cargo.

Packing

25 kgs/bag, paper plastic composite bag or FIBC.

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.

Disclaimer

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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