

FULUORUI[®] Superplasticizer SNF

Sodium Naphthalene Formaldehyde-Standard high efficiency type

Product Description

This product is a brown powdery superplasticizer mainly made from β -naphthalene sulfonate formaldehyde condensate, which offer better comprehensive properties to the concrete and has the characteristic performance of high dispersion and moderate low air-entraining with low water/cement ratios. Also, it can be dissolved in water and effectively reduce initial stage hydration heat to control temperature cracking and enhance concrete compressive strength. When applied with mixtures like fly ash and grinded slag, it can effectively prevent and control temperature cracking for large volume concrete; meanwhile, it has low shrinkage and can effectively prevent shrinkage cracking, thus to improve construction quality. It meets ASTM C 494/C 494M requirements for Type A, Type D and Type F.

Applications

Recommended for use in:

- 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
- Concrete where normal setting times are required
- 4x4[™] Concrete for fast track construction
- Pervious Concrete
- Self-consolidating grout

Features

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

Tested concrete performance Index

Mixture Data: 360 kg/m³ of Type I cement; slump, 80-230 mm; non-air-entrained concrete; dosage rate adjusted to obtain 25-30% water reduction

Setting Time

Mixture	Initial (h:min)	Difference (h:min)
Plain	4:05	-
Superplasticizer SNF	5:35	+1:30

Compressive Strength

Mixture	3Day MPa	28Days MPa
Plain	18	32
Superplasticizer SNF	28	48

Slump Retention (mm)

Mixture	Minutes		
	Initial	30	60
Plain	90	10	0
Superplasticizer SNF	180	160	100

Specifications

Item	Value
Appearance	Brown powder
Solid content	91% min
pH value	8.0 $\pm$ 1.0
Na ₂ SO ₄ content	19% max
Chlorine ion content	0.5% max
Fineness	0.5 max
Water reducing rate	16% min
Cement paste fluidity	180mm min
Surface tension	70 $\pm$ 2 mN/N

Henan Fuluorui New Materials Co., Ltd.
Luoyang Florey Import and Export Co., Ltd

<https://floreyconcrete.com>

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Rate of Hardening: Superplasticizer SNF is formulated to produce normal setting characteristics throughout its recommended dosage range. Setting time of concrete is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete and ambient conditions. Trial mixtures should be made with actual job materials to determine the dosage required for a specified setting time and a given strength requirement.

Guidelines for Use

Dosage: The common dosage is 0.5-1.5% (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: When adding it in the remix container, we recommend the dosage together with the gauging water and the mixing time after dosage of the agent depends on the mixing energy, whereas a minimum mixing time of 15 min must be followed.

Product Notes

Corrosivity–Non-Chloride,Non-Corrosive:

Superplasticizer SNF admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressed concrete or of galvanized steel floor and roof systems. Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of Superplasticizer SNF.

Compatibility: Superplasticizer SNF admixture is compatible with most admixtures used in the production of quality concrete, including normal, mid-range and high-range water-reducing admixtures, air-entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers.

Do not use Superplasticizer SNF admixture with polycarboxylate superplasticizer. Erratic behaviors in slump, slump flow, and pumpability may be experienced.

For directions on the proper evaluation of Superplasticizer SNF admixture in specific applications, contact us.

Storage and Handling

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Storage Temperature: Superplasticizer SNF 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.

Shelf Life: Superplasticizer SNF 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.

Packaging

Products are packed in plastic woven bag with PE liner. 25kg/bag, without pallet. Or 25kg/bag, with pallet.

Related Documents

Safety Data Sheets: Polycarboxylate superplasticizer Superplasticizer SNF admixture.

Additional Information

For additional information on Superplasticizer SNF admixture or its use in developing concrete mixes with special performance characteristics, contact us.

Henan Fuluorui New Materials Co.,Ltd is one of the few technology-based companies working on chemical adjuvant materials for concrete. It has strong R&D capabilities, excellent professionalism, fully automated production lines, rich application experience, and excellent reputation for the R&D, production and application of concrete admixtures and raw materials. There are nearly 500 concrete admixture manufacturers in China that have technical cooperation with our company. Fuluorui has successfully provided ODM and OEM services for customers in North America, Europe, the Middle East, Asia and other markets.

Limited Warranty Notice

FULUORUI warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control.

The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.