



Shandong Zhuoxing Chemical Co., Ltd.
Zibo Zhuoxing Enterprises Co., Ltd.

SPS-05 Set retarding (long slump retention) type polycarboxylate superplasticizer

Description

SPS-05 (long slump retention type) is a new generation Eco-friendly high performance polycarboxylate superplasticizer developed by our company with TPEG 2400 as main raw material.

Technical Principle

The molecular chain shape of PCE is comb shaped. The main chains of the high performance polycarboxylate superplasticizer molecular are absorbed onto the surface of the cement granules, which can effectively hinder the hydration, enhance its fluidity retention ability, the branch chains surrounded by the cement granules play dual roles of steric hindrance and electrostatic repulsion, which is totally different from conventional water reducing agents, which principle is dispersing cement granules by electrostatic repulsion, so the high performance polycarboxylate ether based superplasticizer has better dispersion and water reducing effect.

Advantages/Characteristics:

1. Increase setting time at elevated temperatures.
2. Production control: The water reducing ratio, flowing retention ability

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and air entraining performance of this SPS-05 water reducer can be adjusted by changing the molecular weight of the main chains, length of the side-chains, density and types of the side chain groups.

3. Superior slump retarding property: Excellent slump retention performance, particularly, it improves the slump retaining properties of high workability of concrete, while not influencing the normal setting of the concrete.

4. Good cohesion: It has good cohesion to the concrete, which makes the concrete have good workability, no segregation, no bleeding.

5. Good dispersion: The concrete has very good fluidity, easy to cast and compact, adaptable to self-compacting concrete.

6. Wide adaptability: It has wide adaptability with good dispersion and flowing retention ability to varieties of silicate cements, common silicate cements, slag silicate cements and various admixtures.

7. Superior durability: low porosity, low alkali and chlorine ion content can increase the durability of the concrete.

8. Environment friendly, chloride-free does not attack reinforcement.

Usage

1. Generally, the dosage range is 0.25%—0.8%, it can be beyond this range properly for special cements or aggregates.

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2.The compounding rate for specific cements is determined by tests. Recommended stirring time for its concrete stirrer is at least 150s for good water reducing effect. The concrete mixing tests should be carried out before using so as to assure the concrete quality.

Application

1. It is applicable to various ready mix concrete for industrial and civil architectures.
2. It is particularly applicable to various national construction works with high performance requirements for the concrete , such as water industry, marine works, seaports, traffics, electric powders etc.
3. It is applicable to the special concrete, such as high strength, high durability, self-compaction concrete.

Technical specifications

Item	Unit	Standard	Test result
Appearance	/	Colorless to light yellow viscous liquid	Colorless viscous liquid
Density	g/cm ³	1.10±0.02	1.109
PH	/	5-7	6.7
Solid Content	%	50±1.0	50.1
Cl ⁻	%	≤0.02	Nil



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Na ₂ SO ₄	%	≤0.3	0.15
Water reducing ratio	%	≥ 15	18

Shelf time: six months.

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