



Shandong Zhuoxing Chemical Co., Ltd.

Zibo Zhuoxing Enterprises Co., Ltd.

TDS of SPS-27P Viscosity Reducing & Slump-Retaining High-Performance PCE Powder

Description

SPS-20P is a new-generation, environmentally friendly, high-performance PCE powder characterized with viscosity reducing & slump-retaining and full water solubility.

Technical Principle

With TPEG-2400 as the main raw material, the balance between low viscosity and slump retention performance of concrete was achieved by increasing side-chain density and introducing viscosity-reducing groups.

Advantages/Characteristics

- (1) Solid content: 97% min.
- (2) Rapidity and completely dissolved in water.
- (3) Good slump retention and minimal slump loss, meeting the requirements for long-distance transport and construction.
- (4) Used alone or in combination with water-reducing PCE.
- (5) Compatible with early strength agent, air entraining agent, defoaming agent, etc., supporting multi-functional composite applications.

Application

Applied to mortar, repair mortar, special mortar, self-leveling, grouting material, pressure slurry, prefabricated components, UHPC, etc.; also used
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in high-strength, self-compacting, large-volume and other concrete construction, which can significantly improve the construction efficiency and structural durability.

Quality Specification

Item	Unit	Standard
Appearance	/	Off-white or light yellowish powder
Density	kg/m ³	550±50
pH (23°C)	/	4.0±1.0
Solid Content	%	≥97.0
Moisture content	%	≤3.0
Water Reducing Ratio	%	≥22
Cl ⁻	%	≤0.02
Total Alkali content	%	≤0.3

Usage Instructions and Precautions

(1) Recommended dosage is 0.2%-0.5% by weight of binding materials. Specific dosage must be determined through mix design testing.

(2) Testing must be conducted prior to use.

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(3) This product must not be mixed with naphthalene sulfonate admixtures.

(4) Compatibility testing is required when used with other admixtures.

Storage and Transportation Requirements

Packaging Specifications: Packaged in 25kg plastic woven bags with PE inner liners.

For sea freight: 14 tons (including pallets) per 20 feet standard container; 28 tons (including pallets) per 40 feet high cube container.

For rail freight: 25.5 tons (including pallets) per 40 feet high cube container.

Transportation: Classified as non-hazardous chemicals; transport as general cargo. Protect from rain and moisture during transit.

Storage Conditions

Store in a cool, dry, well-ventilated area. Strictly avoid moisture exposure, as it may cause clumping and affect performance. Protect from direct sunlight and high temperatures (recommended ambient temperature $\leq 40^{\circ}\text{C}$).

Shelf Life

12 months. Use after testing if stored beyond this period.

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