TDS of Water Retaining Admixture BS01

Description

BS01 is a water-soluble, polymer-based water retaining admixture used in concrete, mortar, drilling fluids, and other applications.

Technical Principle

Unlike traditional water retaining admixture such as cellulose ether, BS01 incorporates groups such as acrylamide to form a three-dimensional network structure that traps water and releases it slowly over time. This significantly improves the workability, water retention, and resistance to segregation of concrete, ensuring both construction quality and long-term durability after hardening.

Advantages/Characteristics

(1) Fully water-soluble, making it easy to blend with other ingredients.

(2) Highly effective moisture retention, preventing bleeding and segregation, and effectively addressing issues such as “exposed sand, exposed stone, and bottom scraping.”

(3) Increases the body and cohesiveness of the slurry, improves the flow properties of concrete with low cement content, low strength grades, or high fluidity, and enhances workability.

(4) Enhances hardening properties and durability by minimizing moisture loss, ensuring complete cement hydration, thereby reducing the risk of shrinkage cracking and improving water resistance, freeze-thaw resistance, and overall structural durability.

Quality Specification

Item	Unit	Standard
Appearance	/	Off-white or light yellowish liquid
Density (23℃)	g/cm³	1.05±0.02
pH (23℃)	/	6.0±1
Cl^-	%	≤0.02
Total Alkali Content	%	≤0.3

Usage Instructions and Precautions

(1)When used in combination with admixtures such as polycarboxylic acid-based water-reducing agents, the recommended dosage of water-retaining agents is generally 0.01% to 0.03% of the total cementitious materials; the specific dosage should be adjusted based on the concrete grade, characteristics of the raw materials, and construction requirements.

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

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

Packaging Specifications

Plastic bulk drums, 1 ton per drum.

Storage & Transportation

This product is non-toxic and non-flammable and may be transported as a general chemical. Store in a dry, well-ventilated area, away from sunlight and rain. Store and transport at temperatures below 40℃.

Shelf Life

Shelf life of one year under specified storage and shipping conditions.