

Polycarboxylate Superplasticizer (Powder form)

NOVASTAR® 530P

Technical Data Sheet (TDS)

Description

Novastar 530P is a powder form of PCE (Polycarboxylate Ether) superplasticizer. It is a high-performance admixture designed for use in Portland cement-based concrete formulations. This innovative powder is specifically engineered to enhance the workability and flow characteristics of concrete mixtures, allowing for easier placement and improved finishing.

Specification

Items	Specification
Appearance	white to yellowish powder
Bulk Density	500-700kg/m ³
Moisture Content	≤3.0%
20% liquid pH Value	7.0-9.0
Water-reducing rate	≥25%

Fields of application

It is particularly suitable for mortar or concrete systems containing Portland cement and cement binders.

- ✓ Grouting Mortar
- ✓ Injection Mortar
- ✓ UHPC
- ✓ Cement-based Precast component
- ✓ Dry mix concrete
- ✓ Oil well cementing additive

Performance and Advantages

(1) High water reducing rate

It can achieve reducing rate more than 30% for the right applications

(2) Increased early and ultimate strength

It can contribute to accelerated setting times and improved early-age strength

development. This can be crucial in projects where quick turnaround or early strength is required.

(3) Enhanced flowability

It enhances the flowability and rheological properties of concrete, allowing for easier placement and compaction.

(4) Improved Workability

PCE is highly effective in reducing the water content needed for a given level of workability. This leads to a more fluid and workable concrete mix without compromising its strength.

Usage and Dosage

Pre-mix evenly with other dry powder components before packaging. Mix and use on-site according to the recommended amount of water.

The recommended addition amount is 0.1%-0.5% of the cementitious material, which must be pre-tested according to the raw materials and construction specifications before use.

Packing

25 kg / paper bag

Storage and Shelf life

Store products in their original packaging in a dry, clean environment, away from heat sources. While this product maintains efficacy well, its hydrophilic nature means it can slowly absorb moisture in sub-optimal storage conditions. Ensuring tightly sealed packaging to prevent moisture intrusion if not fully utilized.

Shelf-life time is 12 months stored under the right conditions.

Transport Regulation

Not known as a dangerous goods according to transport regulations.