LANDU兰杜

Technical Data Sheet

Novastar™ 540P

Polycarboxylate Superplasticizer(PCE)

Novastar™ 540 Polycarboxylate Superplasticizer is a freely flowing, spray-dried modified polycarboxylate ether powder. It offers high water reduction and high plasticity properties, making it suitable for dry powder mortars and concrete systems. It has good adaptability and dispersibility in various cement-based material systems, providing the material system with excellent workability. Novastar™ 540 Polycarboxylate Superplasticizer can effectively improve the system's compactness and strength, enhance the compactness of the hardened paste, improve shrinkage and creep properties, and reduce cracking. Novastar™ 540 Polycarboxylate Superplasticizer is recommended for use in high-strength, high-durability concretes such as grouts and pressure/injection materials.

Specifications

Property	Condition	Value
Appearance	-	White powder
Matrix	-	Modified polycarboxylate ether
Solid Content	-	≥98
Bulk Density	-	600±100g/L
Active Ingredients	-	≥90%
Water Reduction Rate	-	≥35
Moisture Content	-	≤3%

These figures are only intended as a guide and should not be used in preparing specifications.

Applications&Feature

Novastar™ 540P is a modified polycarboxylate powder admixture that exhibits free-flowing and spray-drying characteristics. It has a high water-reducing rate and excellent flowability, making it suitable for cement-based material systems. It can enhance the mechanical properties of cement-based materials and increase their compactness to improve compressive and flexural strength.

★ Cement based Self-leveling ★ Waterproof Mortar

★ Bedding Mortar ★ Repair Mortar

★ Surface Cementtitous Self leveling mortar

Processing

To prepare concrete such as grouts and pressure/injection materials, simply mix Novastar™ 540 PCE with other components in the appropriate equipment until it is well combined. To maximize water reduction performance and overall capabilities, we recommend mixing for at least 30 seconds after adding the appropriate water ratio. The added amount varies depending on the application process and changes in dry mix components. The general dosage range is between 0.1% and 0.3%. At high dosages, bleeding or segregation may occur, as well as an impact on the setting of the mortar. We recommend actual testing before using this product to determine the optimal dosage.

Packaging & Storage	
1.Packaging Term:	25 kg per bag, 1000 kg per pallet
2.Storage Term:	The PCE product should be stored in a cool and dry place, protected from moisture and humidity. Prolonged storage at temperatures above 30°C, especially when subjected to pressure, moisture, or exposure to sunlight, the product may result in caking. After opening, the product should be properly sealed before storage. The recommended storage period should not exceed 12 months from the date of production. If the PCE has been stored for a longer period than the recommended time without caking, it can still be used. However, in such cases, we recommend customers to test the product's performance to ensure it meets the intended application requirements before use.