

Polycarboxylate Superplasticizer for Precast Concrete

Polycarboxylate Superplasticizer for Precast Concrete is based on the polymer structure which is specially designed to improve the rheology of precast concrete, making it very flowable and low viscous even at very low water/cement ratio, without increasing stickness.

Advantages:

1. High water reducing ratio
2. Improved early strength and high strength
3. Production of highly flowable, robust self-compacting concrete having a low water cement ratio along with an optimal rheology
4. Enhanced robustness and consistency in concrete quality with low stickness
5. Elimination or reduction of the energy required for placing, compaction and curing.
6. Improved surface appearance

Field of Application

Polycarboxylate Superplasticizer for Precast Concrete has wide adaptability to kinds of cements, gravels and sands. It is suitable for

making precast concrete elements with normal or highly-fluid concrete without segregation with a low water cementious ratio.



Technical specification

Items	Enterprise Standard
Appearance (23°C)	Colorless, light yellow to brown viscous liquid
PH Value (23°C)	5-7
Solid content (%)	50 ± 1

Water reducing ratio (%)	≥ 25
Content of Chloride (%)	≤ 0.02
Na ₂ SO ₄ (%)	≤ 0.3

Usage

Recommended dosage (by binding materials' weight) is 0.5%-1.5%. The optimum dosage is according to the real project conditions and actual materials.

Handling and Storage

1. Polycarboxylate Superplasticizer for Precast Concrete should be stored at temperature from 0°C-40°C. Keep out of sun, rain, impurity. Avoid evaporation of water.
2. It is non-toxic, non-polluting and non-flammable. Protection gloves and glasses are recommended during the application.

Shelf time: Six months