

Polycarboxylic Ether Based Superplasticizer

Polycarboxylic Ether Based Superplasticizer also known as high range water reducers, are concrete admixtures where well-dispersed particle suspension are required. These polymers are used as dispersants to avoid particle aggregation, and to improve the flow characteristics or rheology of suspensions such as in concrete applications. Their addition to concrete or mortar allows the reduction of the water to cement ratio, not affecting the workability of the mixture, and enables the production of self-consolidating concrete and high performance concrete.

Application:

Polycarboxylic Ether Based Superplasticizer, is a superplasticizer for high performance concrete, high strength concrete, high volume fly ash/slag concrete and grouting/self-leveling screed/mortar.

Characteristics

1. Produce high quality durable concrete.

2. Powerful plasticizing action with an improved initial workability, easier placing and faster strength development.
3. High water cement ratio which allows production of high strength concrete.
4. Long slump retention property with capability of delivering high performance concrete at any time to the job site place.
5. Polycarboxylic Ether Based Superplasticizer can be either used alone or after compounded with other additives to make special concrete such as pumping concrete, ready mixed concrete etc.

Quality Specification

Item	Unit	Standard
Appearance	/	White or light yellow to brown viscous liquid
Density	g/cm ³	1.10 ± 0.02
PH	/	5-7
Solid content	%	50 ± 1.0
Water reducing ratio	%	≥ 25

Cl ⁻	%	≤ 0.02
Na ₂ SO ₄	%	≤ 0.3



Usage

1. Generally, the dosage range is 0.25%—0.8%, it can be beyond this range properly for special cements or aggregates.
2. The recommended stirring time is at least 150s for good water reducing effect.
3. It can be compounded with various retarders and sodium lignosulphonates.

Packing: Flexitank, 22 MT/20'GP ; 230kg/barrel, 18.4 MT/20'GP; 1100 KG/IBC drum, 22 MT/20'GP

Shelf time: Six months