

Technical Data Sheet

Polycarboxylate Ether Powder Form For Concrete

Admixtures

Description

Polycarboxylate ether (powder) is high performance 100% polycarboxylate ether polyether, specifically developed as a high range water reducing agent for concrete and other mineral materials .

It is concentrated from liquid polycarboxylate ether, for convenient transportation purpose, It is mainly used as a raw material to produce different types of high performance water reducers for targeted industries.

Special features

- ▲ Polycarboxylate ether performs water-reducing effect, categorized as ASTM type A admixture with superior benefits from technology and the quality:
- ▲ Very effective, largely reduces required dosage
- ▲ Good stability, producing extended slump life
- ▲ Homogeneous plasticizing property with a unique cohesive characteristic, thus preventing segregation and bleeding
- ▲ Promotes usage of higher dosage or volume of cementitious supplementary materials such as silica fume, fly ash and blast furnace slag.
- ▲ Versatile disperser for various types of cement and minerals including gypsum, ceramic, iron-oxide pigment.

Uses

- ▲ Polycarboxylate ether is mainly used as a major ingredient to produce a high performance water reducers or plasticizers etc., concrete admixture for the following applications

- ▲High performance concrete
- ▲Self-compacting concrete
- ▲Pumpable or flowable concrete
- ▲Concrete containing silica fume, fly ash or blast furnace slag
- ▲Specially shaped concrete elements
- ▲Architectural concrete
- ▲Lightweight concrete

It can also be used as-is for above mentioned applications. However due to variations in chemical composites of cements and other materials used and for different application requirements, it is not suggested to use it directly in concrete or other materials without evaluation. The optimal performance of it in applications should be obtained through trial mixes and or through formulation adjustments by the users. For precast products processed in elevated temperate such as steam curing.

Specification

Properties	Index
Physical form	Powder
Visual Appearance	Light pink powder
Solid content (%)	97%
Bulk Density Kg/m ³	510kgs/m ³
Viscosity	53(in 40% water solution)
pH	9.0
Cl-(%)	0.1
Stability	No crystallization

Special notes

Do not use it with additives containing naphthalene sulfonate. Unreliable rheological behaviors may be experienced

Do not use it for temperature treated concrete or other materials

Packing

Available in 25kgs/bag,paper bag

Storage

It should be stored at temperature 5-40°C(40-104F).When it freezes,full strength can be restored after complete thawing and thorough agitation. Keep container closed when it is not in use. Do not store the product directly under sunlight.

Shelf life

The shelf life is 12 months.

Handling

It shows negligible toxic hazardous,and corrosive. Comprehensive instructions are given in the material safety data sheet.