Technical Data Sheet

Polycarboxylate Ether Liquid For Concrete

Description

Polycarboxylate ether liquid is a high performance superplasticizer and water reducer for concrete.

It can create a water reduction up to 40% with relatively low dosage(about 0.02-0.3% by cement weight)

It is mainly used as a raw materials to produce different types of high performance concrete admixtures for targeted industries.

According to applications, we can offer water reducing type,slump retention type and early strength admixture.

Solid content 20%,40% and 50% are available.

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 usages of higher dosage or volume of cementitous supplementary materials such as silica fume, fly ash and blast furnace slag.

▲ Versatile disperser for various types of cement and minerals including gypsum,ceramic,ion-oxide pigment.

Uses

▲Polycarboxylate ether is mainly used as a major ingredient to produce a high performance water reducers or plasticizers for the following applications

▲High performance concrete

▲Self-compacting concrete

▲Pumpable or flowable concrete

▲Concrete containing silica fume, fly ash or blash 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	A
Physical form	Viscous liquid
Visual Apperance	Clear brown color
Solid content(%)	40%,50%
Density Kg/m2	1.12
Viscosity	53
pH	9.0
Cl-(%)	0.1
Stability	No crystallization

Special notes

Do not use it with additives containing naphthalene sulfonate.Unreliable rheologic

behaviors may be experienced

Do not use it for temperature treated concrete or other materials

Packing

Available in 200kgs/drum or 1100kgs tank.

Storage

It should be stored at temperature 5-40℃(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 twelve(12)months when it is packed with a new drum or tote tank

Handling

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