

TAOS CHEMICAL CO.,LIMITED

ADD:136#,LINGDOUYILI,SIMING, XIAMEN,FUJIAN,CHINA.361000

TEL(FAX):86-0592-5963162,EMAIL:TAOSCHEM@GMAIL.COM

Technical Data Sheet

Polycarboxylate Ether(PCE) Dry Mix Powder

Description

PCE Dry Mix Powder is a free flowing, sand-like, spray dried powder, it is a new generation polycarboxylate ether polymers, It is used as a superplasticizer and high range water reducer for cement based materials. It is also an excellent dispersion plasticizer suitable for gypsum, ceramic and other mineral materials.

Specification

Physical form	Free Flow Powder
Visual Appearance	light Pink
Bulk density, kg/m ³	510
Drying loss, %	2.0
pH (23°C), at 20% solution	7.0-9.0
(%) Solid Content	98.0
Chloride(Cl ⁻)	0.1% max
Na ₂ O+0.658K ₂ O(wt%)	1.0%max
Na ₂ SO ₄ (wt%)	0.5%max
Solubility	Water soluble

Performance Data

Mix proportion	Cement	390
	Aggregate	1780
	Plasticizer, % wpc	0.2
	Water Reduction, %	32
	Air Content	5.0
	Slump Retention at 60 min mm	195
	Relative value	
		1 Day

Performance	Compressive strength	3 Days	1.78
		7 Days	1.63
		28 Days	1.36
	Bleeding		0.32
	Shrinkage		0.89

Features

PCE Dry Mix Powder has superior features:

- High-efficient water reduction up to 35%
- Excellent stability, providing long working time
- Unique homogeneous plasticizing property, thus preventing segregation and bleeding
- Good disperser for various types of cements and gypsums and minerals.
- High strength improved
- Low shrink rate.

Applications

- High strength concrete
- High performance concrete
- Self-leveling
- Structure grout
- Cable grout
- Repair mortar
- Floor screed / thin-overlay
- Cement coating/paint
- Gypsum, ceramic products
- Products containing silica fume, silica flour, pigment and other ultra-fine particles
- Architectural products

Dosage

The recommended dosage of PCE Dry Mix Powder for various applications is 0.02%

to 0.3% of cementitious materials.

Compatibility

Do not use **PCE DRY MIX Powder** with additives containing naphthalene sulfonate. Unreliable rheologic behaviors may be experienced.

Package

25kg cardboard drum with plastic bag or packed in paper bag

Storage

The product may absorb moisture and should be stored in dry area.

Shelf life

The shelf life is 12 months in unopened drum. Opened bags should be resealed and used within 60 days.

Handling

PCE Dry Mix Powder is a weak alkaline powder. It shows negligible toxic, hazardous, and corrosive.