

Technical Data Sheet

Polycarboxylate Superplasticizer



Product Description

PCE SP630

Michem Polycarboxylate Superplasticizer Powder (PCE SP 630) is a high performing polycarboxylate superplasticizer in powder form, also known as a High-Range Water Reducer, water-reducing concrete admixtures or PCE based Super-plasticizers. It is a free-flowing, spray-dried powder based on modified polycarboxylates, co-polymers. The product provides excellent water reduction and superior slump retention, making it an ideal choice for drymix mortar formulations and Readymix concretes. Specially engineered for Portland cement-based systems, SP630 enhances cementitious material fluidity without increasing water demand.

Specifications and Characteristics

Grade	PCE SP630
Appearance	White to light yellow powder
Composition	Modified polycarboxylic ether
Solid Content	≥98%
Water Reduction Ratio	≥35%
Air Content	≤ 3%
Bulk Density	400 ~ 700 g/L
pH-value (20 °C), 20 % solution	6 ~ 8
Recommended Dosage	0.5% ~ 1.0% of the cement weight

The actual dosage should be determined based on specific tests.

Typical Applications

Features/Benefits

Drymix mortars: tile adhesives, grouts, repair mortars, self-leveling compounds
Grouting materials and post-tensioning duct grouts
Building plaster, render, stucco, filling compound
Self-levelling and self-compacting concretes with low w/c-ratio
Precast and ready-mix concrete

Provide better slump retention, easier to work with.
Lower water-cement ratio, higher strength and durability.
Achieve higher early and final strength.
Improved compaction and reduced permeability enhance the durability.
Cost effective, structurally economic

Packaging

25 kg / paper bag
Custom packing available.

Storage

Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45°C.
Protect from direct sunlight and frost.

All of data, suggestions, and proposals presented here are based on our current knowledge and experience in raw materials and application technologies, which do exclude the responsibility of users to scrutinize the quality of all received products. Because we are out of control of quality in users' raw materials, production and application methods, service conditions as well as local standards, our suggestions and proposals do not imply any guarantee and promise for end end product quality. The users should be responsible for formulation adjustment according to real conditions to meet project quality requirements.