

TECHNICAL SPECIFICATIONS :

- ❖ PCE POWDER is a ready to use high range water reducing concrete admixture emanating from the state-of-the-Art Polycarboxylate technology.
- ❖ PCE POWDER is new generation superplasticizer containing carboxylic (COOH) group instead of sulphonic (SO₃H) as in case of Melamine or Naphthalene Formaldehyde Sulphonate.

Specification

Nature	: Polymeric Acrylic Ester.
Appearance	: Cream coloured powder
pH value (1:10)	: 6.0 to 8.0
Solubility	: Readily soluble in water
Solid	: 97 ± 1%
Chloride content	: Below 200 PPM

PROPERTIES:

The power packed (COOH) moiety is absorbed on hydrating cement grain in much greater amount than conventional superplasticizer, resulting excellent fluidity and yielding a Rheoplastic & Self Compacting Concrete (SCC) at low water cement ratio.

Due to steric-hindrance effect imparted by ether-function hydrophilic chain attached to polymer, superior slump (workability) retention is achievable by use of PCE POWDER.

PCE POWDER is the main raw material for concrete admixture, which improves water reducing abilities. We provide first rate products through continuous quality control and usage development.

ADVANTAGE

: The advantage of PCE POWDER are as below,

- High water reducing ability.
- Improve concrete setting time.
- Produces cohesive and non-segregating concrete mixtures.
- Small dosage level.
- Low concrete viscosity.
- Increase compressive and flexural strength of concrete at all ages.
- More than 30 % water reduction in high performance concrete.
- Linear water reduction through out the recommended dosage.
- Faster recycle of form work owing to accelerated early strength development.
- Close textured fair faced smooth concrete.
- Rheoplastic self-leveling and self compacting concrete.
- Economical concrete design.

DOSAGE:

0.3 to 1.2 kilograms/100 kilograms cementitious material for most concrete mixes using typical concrete ingredients. However for silica fume concrete, the dosage may fall outside recommendation and site trials in case of critical workability and setting time parameters as per requisites to fix optimum dosage. To be mix with water and added to cement aggregate mixture.

PACKING:

PCE POWDER is available in 25 kg HDPE bag

CAUTION:

Do not mix PCE POWDER to any other products without pilot scale trial.

SHELF LIFE & STORAGE

PCE POWDER has a shelf life of 24 months from date of manufacture when kept at a temperature between 5°C to 45°C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

QUALITY ASSURANCE

AMBICA SPECIALITY CHEMICALS is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2015.

HEALTH & SAFETY

PCE POWDER is no-toxic and non-flammable. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.