

Technical Data Sheet

PCT-175

- ❖ PCT-175 is a slump retarding admixture (ASTM C 494 –Type B). It gives excellent rheology and self-compacting concrete.
- ❖ PCT-175 is new generation superplasticizer containing carboxylic (COOH) group instead of sulphonic (SO₃H) as in case of Melamine or Naphthalene Formaldehyde Sulphonate.

Nature:	Synthetic polycarboxylic Ether.		
Specification:	Appearance	:	Brownish coloured viscous liquid
	pH value (As such)	:	5.5 to 6.5
	Solubility	:	Readily soluble in water
	Solid	:	55 ± 1%
	Specific Gravity	:	1.110 ± 0.02
	Chloride content	:	Below 0.02 %

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 grafted chain attached to polymer, superior slump (workability) retention is achievable by use of PCT-175. PCT-175 is compatible with all of PCE products. PCT-175 is compatible with lingo base plasticizer. Do not use blending with SNF base plasticizer.

Advantage: The advantage of PCT-175 is as below :

- Improvement slump retention.
- Produces cohesive and non-segregating concrete mixtures.
- Increase compressive and flexural strength of concrete at all ages.
- More than 30 % water reduction in high performance concrete.
- Close textured fair faced smooth concrete.
- Rheoplastic self-leveling and self compacting concrete.

Dosage: 0.4 to 1.5 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. The best formulation should make on site after completing enough tests.

Packing: PCT-175 is available in 225 kg HDPE drum. **Alternative packing may be available upon request.**

Caution: Do not allow product to freeze or be stored in temperature below freezing. Do not mix PCT-175 to any other products without pilot scale trial.

Pollution reducing & Environment friendly.