

## Technical Data Sheet

### PCF-700

- ❖ PCF-700 is a high range water reducing admixture (ASTM C 494 – Type F)
- ❖ PCF-700 is a water reducing concrete with high dispersion and early strength emanating from the state-of-the- Art Polycarboxylate technology.
- ❖ PCF 700 is new generation super plasticizer containing carboxylic (COOH) group instead of sulphonic (SO<sub>3</sub>H) as in case of Melamine or Naphthalene Formaldehyde Sulphonate.

**Nature:** Synthetic polycarboxylic Ether.

**Specification:**

Appearance	:	Pale Yellowish to brownish viscous liquid
pH value (As such)	:	5.0 to 6.0
Solubility	:	Readily soluble in water
Solid	:	50 ± 1%
Specific Gravity	:	1.108 ± 0.04
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 PCF-700. PCF-700 is compatible with all of PCE products. PCF-700 is compatible with lingo base plasticizer. Do not use blending with SNF base plasticize.

- Advantage:** The advantage of PCF-700 are as below,
- High water reducing ability.
  - Improvement of the concrete strength through water reduction.
  - Small dosage level.
  - More than 40 % water reduction in high performance concrete.
- Dosage:** 0.2 to 0.9 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:** **PCF-700** 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 PCF-700 to any other products without pilot scale trial.

**Pollution reducing & Environment friendly.**