

TDS

[TECHNICAL DATA SHEET]

PCE 50% (HWR)

- ✓ PCE 50% LIQUID (HWR) is a high range water reducing admixture.
- ✓ PCE 50% (HWR) is an aqueous carboxylic acid copolymer as water reducing type super plasticizer for high performance concrete from the state-of-the-Art Polycarboxylate technology. Effect long distance transportation for a long period of time.
- ✓ PCE 50% (HWR) 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	:	Pale yellowish to Brownish 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 chain attached
- ✓ to polymer, superior slump (workability) retention is achievable by use of PCE 50% (HWR). PCE 50% (HWR) is compatible with all of PCE products_PCE 50% (HWR)
- ✓ is compatible with lingo base plasticizer. Do not use blending with SNF base plasticizer.

Advantage:

The advantage of PCE 50% (HWR) are as below,

- ✓ Improve the strength concrete through water reduction in concrete.
- ✓ Easy to use any cement grade.
- ✓ Reduce slump lose and improve workability.
- ✓ Workable in mud sand. More than 45 % water reduction in high performance concrete.

Dosage: 0.3 to 1.0 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.

- ✓ **Packing:** PCE 50% (HWR) is available in 225 kg HDPE drum. Alternative packing maybe available upon request.

Caution: Do not allow product to freeze or be stored in temperature below freezing. Do not mix PCE 50% (HWR) to any other products without pilot scale tri