

STENFY CHEM

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[TECHNICAL DATA SHEET]

STC PC 50% LIQ.

1. About Product-:

- ✓ STC PC 50 % LIQ (HWRES) is a high range water reducing and accelerating admixture. It gives high early strength.
- ✓ STC PC 50 % LIQ (HWRES) is new generation superplasticizer containing carboxylic (COOH) group instead of sulphonic (SO3H) as in case of Melamine or Naphthalene Formaldehyde Sulphonate.

2.Nature: Synthetic Polycarboxylic Ether.

3.Specification Appearance : Pale yellowish to brown colored liquid

pH value (As such) : 5.0 to 6.0

Solubility : Readily soluble in water

Solid : $51 \pm 0.5\%$

Specific Gravity : 1.108 ± 0.04 Chloride content : Below 0.02 %

4. Properties:

- ✓ The power packed (COOH) moiety is absorbed on hydrating cement grain in much greater amount than conventional super plasticizer, resulting excellent fluidity and yielding a Rheoplastic & Self Compacting Concrete (RCC) 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 STC PC 50 % LIQ (HWRES). STC PC 50 % LIQ (HWRES) is compatible with all of PCE products. STC PC 50 % LIQ (HWRES) is compatible with lingo base plasticizer. Do not use blending with SNF base plasticizer.

Advantage: The advantage of STC PC 50 % LIQ (HWRES) are as below,

- High water reducing ability.
- ✓ Improvement early strength.
- ✓ Improve concrete setting time.
- ✓ Increase compressive and flexural strength of concrete at all ages.
- ✓ More than 40 % water reduction in high performance concrete.
- ✓ Linear water reduction throughout the recommended dosage.
- ✓ Faster recycle of formwork owing to accelerated early strength development.

Dosage: 0.2 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. To be mix with water and

added to cement aggregate mixture. The best formulation should make on site after

completing enough tests.

Packing: STC PC 50 % LIQ (HWRES) 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** STC PC 50 % LIQ (HWRES) to any other products without pilot scale trial.