

High Range Water Reducing, Superplasticising Admixture

## DESCRIPTION

TamCem 60PC is poly-carboxylic ether based high range water reducing admixture conforming ASTM C494 Type C & E and IS 9103 Accelerating Type. It has developed for Self-Compacting Concrete, high workable concrete, Sprayed Concrete, Ready Mixed Concrete etc. Its compatible with all cements to meet desired performance.

TamCem 60PC consist of selective polycarboxylate ether based long chain polymers branched with ethoxylates, selective neutralize hydroxycarboxylic acid to give high water reduction and longer open time to facilitate longer time for concrete placement without significant delayed setting of the concrete.

Traditional SNF based admixture adsorbed by cement (Moistened) granules. They wrap around the cement (Moisten) granules and developed negative charges. This electrostatic force causes the cement paste to disperse. Hence the cement particles de-flock and demand less water in compare to concrete without admixture.

TamCem 60PC has different chemical structure, initially after mixing with cement (Moisten) it also develop negative charges around the cement paste, but the side chains linked to the backbone generates a steric hindrance provides a physical barrier, along with the electrostatic barrier, between the cement grains. Dual repulsive force gives more dispersibility to cement paste; hence TamCem 60PC gives higher water reduction.

## KEY BENEFITS

- › Low water-cement ratio enhances high early and ultimate strength of concrete
- › High flowability provides easy placement and compaction
- › Higher E modulus
- › Better resistance to carbonation and other atmospheric conditions
- › Dispersibility of cement partials reduces permeability of concrete also discontinued spore in concrete resulting low water penetration
- › Reduce shrinkage and creep

## TYPICAL APPLICATIONS

- › High-workable concrete
- › High performance concrete
- › Durable concrete
- › Ready mixed concrete
- › Cold weather concrete

## TECHNICAL DATA

TamCem 60PC	
Colour	Brown Liquid
Relative Density, g/cm <sup>3</sup>	1.09 ± 0.02
pH	Min. 6
Chloride Content	Max. 0.2%
All above test completed at 25°C	

All technical data stated here is based on tests carried out under laboratory conditions.

## APPLICATION GUIDELINES

Dosage can reach up to 1.4% by weight of cementitious binder. Should application conditions require a higher dosage rate such as with self-compacting concrete (SCC) applications, consult with your local Normet representative.

Trial concrete mixes must be carried out to determine the appropriate dosage.

An independent dispenser and feed line must be used during the application. TamCem 60PC can be added to the mixed concrete or into the mixing water but addition to any dry concrete mix is not recommended.

## PACKAGING

TamCem 60PC is available in 225 kg barrels. Packaging size may vary subject to local regulations and requirements. Please contact your local Normet representative for more details.

## STORAGE

TamCem 60PC should be stored at room temperature (min 10°C and max 40°C). It should be kept dry and away from sunlight, in shaded area. If package is remained unopened and stored as specified, then shelf life of 1 year can be expected.

## HEALTH & SAFETY

TamCem 60PC should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The SDS is available upon request from your local Normet representative.