

TamCem 23NP

Water Reducing Admixture

normet

CONSTRUCTION CHEMICALS
TECHNICAL DATA SHEET

DESCRIPTION

TamCem 23NP is poly-carboxylic ether based water reducing admixture conforming ASTM C494 Type D and IS 9103 water reducing Type. It has developed for Self-Compacting Concrete, high workable concrete, Sprayed Concrete, Ready Mixed Concrete, PQC etc. Its compatible with all cements to meet desired performance.

TamCem 23NP 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 deflock and demand less water in compare to concrete without admixture.

TamCem 23NP 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 23NP** gives higher water reduction.

KEY BENEFITS

- Low water-cement ration enhance 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

TYPICAL APPLICATIONS

- High-Workable Concrete.
- High performance concrete.
- Durable concrete.
- Ready mixed concrete

TECHNICAL DATA

TamCem 23NP	
Form	Brown Color Liquid
Relative Density	1.07 ± 0.02
pH	Min. 6
Chloride Content	Max. 0.2%
All above test completed at 25°C.	

All technical data stated herein is based on tests carried out under laboratory conditions 25°C.

APPLICATION GUIDELINES

Dosage can reach up to 1.2 % by weight of cementitious binder. Should application conditions require a higher dosage rate such as with self-compacting concrete (SCC) applications, consult 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 23NP can be added to the mixed concrete or into the mixing water but addition to any dry concrete mix is not recommended.

PACKAGING

TamCem 23NP is available in 225 Kgs barrels. Packaging size may vary subject to local regulations and requirements, please contact your local Normet representative for more details.

Whilst any information and/or specification contained herein is to the best of our knowledge, true and accurate, we always recommend that a trial be carried out to confirm suitability of the product. Please note regional climatic conditions may cause a variation in the performance of the product. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives, agents or distributors. The information in this data sheet is effective from the date shown and supersedes all previous data. Please check with your local Normet office to confirm that this is current issue.

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STORAGE

TamCem 23NP should be stored at room temperature (min 10°C and max 40°C). Kept in dry and away from sunlight, in shaded area. If pack is remain unopened and stored as specified then shelf life of 1 year can be expected.

TamCem 23NP 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 Health & Safety data sheet is available upon request from your local Normet representative.

HEALTH & SAFETY

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