

Superplasticising Concrete Admixture

DESCRIPTION



TamCem 102 is a superplasticiser for concrete. It contains state of the art polycarboxylate ether polymers and is specially formulated to give exceptionally high water reduction and enhances workability for sprayed concrete mix designs. TamCem 102 is a non-chloride liquid admixture, which complies with the requirements of EN 934-2, as a high range water reducer/superplasticising admixture for concrete. TamCem 102 is compatible with all cements meeting recognised international standards.

TamCem 102 requires a lower dosage compared to conventional superplasticisers but provides extreme workability characteristics for high slump, flowable concrete with greatly reduced water demand.

KEY BENEFITS

- > High water reduction which provides high early and ultimate strengths, low permeability and high durability of the concrete.
- > High flowability provides easy placement and compaction.
- > Excellent cohesion, zero segregation and minimal bleed water with extremely high levels of concrete workability.
- > Exceptional slump retention and easier placement and delivery control especially under warm climatic conditions.
- > High elastic modulus, low shrinkage and creep are achievable using graded coarse and fine aggregates.
- > Superior finishes with reduced honeycombing.

TYPICAL APPLICATIONS

- > High performance concrete
- > Improving mixing efficiency during large pour
- > Highly flowable concrete
- > Highly durable concrete
- > High strength concrete
- > Ready-mix concrete
- > Mass concrete
- > Pumped concrete and wet sprayed concrete

TECHNICAL DATA

TamCem 102	
Form	Liquid
Colour	Brown
Density (g/cm ³)	1.04 ± 0.02
Solids Content (%)	22.00 ± 2.00
pH	6.0 ± 1.0
Chloride Ion Content (%)	< 0.1
All at 20°C	

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

APPLICATION GUIDELINES

Dosage can be adjusted to meet mix design requirements or to meet specific job site conditions. Trial concrete mixes must be carried out to determine the appropriate dosage.

Typical dosage is 700 - 100 ml / 100 kg of cementitious binder. Should application conditions require a higher dosage rate such as with self-compacting concrete applications, consult your local Normet representative.

An independent dispenser and feed line must be used during the application. TamCem 102 can be added to the mixed concrete or preferably into the mixing water to obtaining complete dispersion and speed up activation time. Addition to any dry concrete mix is not recommended.

TamCem 102 is compatible with most other TamCem admixtures. Please consult your local Normet representative if required.

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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PACKAGING

TamCem 102 is supplied in IBCs, drums and bulk. Packaging size may vary subject to local regulations and requirements, please contact your local Normet representative for more details.

STORAGE

TamCem 102 should be kept dry and out of direct sunlight, stored at room temperature above 0°C. If these conditions are maintained and the product packaging remains sealed, then a shelf life of one year can be expected.

TamCem 102 will freeze at approximately -4°C but will return to full functionality after thawing and thorough mild mechanical agitation.

HEALTH & SAFETY

TamCem 102 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 Safety data sheet is available upon request from your local Normet representative.