

Superplasticizing Concrete Admixture

DESCRIPTION

TamCem 422R is a superplasticizer for concrete that complies with the requirements of EN 934-2.

TamCem 422R is a non-chloride liquid admixture, designed as a high range water reducer/superplasticizer for concrete.

It is specially formulated for enhanced workability of concrete mix designs using more demanding cements; TamCem 422R contains state-of-the-art polycarboxylate ether polymers and specialist dispersing agents. It is compatible with all cement meeting recognised international standards.

TamCem 422R requires a similar dosage to most stable superplasticizers but provides workability characteristics for high consistent, flowable concrete with greatly reduced water demand.

KEY BENEFITS

- › Optimises water cement ratio for high early and ultimate strengths, low permeability and high durability concretes.
- › High consistency provides easy placement and compaction.
- › Excellent cohesion, zero segregation and minimal bleed water with extremely high levels of concrete workability. Good slump retention for easier placement and delivery control.
- › High elastic modulus, low shrinkage and creep are achievable using graded coarse and fine aggregates.
- › Reduced entrapped air, delivering superior finishes with reduced honeycombing.

TYPICAL APPLICATIONS

- › Pumped concrete and wet sprayed concrete
- › Improving mixing efficiency during mass concrete pours
- › High performance / strength concrete
- › Highly flowable concrete
- › Highly durable concrete
- › Ready-mix concrete

PACKAGING

TamCem 422R 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 and sustainable options.

TECHNICAL DATA

TamCem 422R	
Form	Liquid
Colour	Light Brown
Density (kg/l)	1.06 ± 0.02
pH	6 ± 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 0.5 - 1.2% of cementitious binder content. The higher dosage rate is for high consistence applications such as with self-compacting concretes.

An independent dispenser and feed line must be used during the application. TamCem 422R can be added into the mixing water to obtain complete dispersion, or preferentially, added after most of the water has been mixed into the concrete. Addition to any dry concrete mix is not recommended.

TamCem 422R is compatible with most other TamCem admixtures. Please consult your local Normet representative if required.

STORAGE

TamCem 422R should be kept dry and out of direct sunlight, stored at room temperature above 4°C. If these conditions are maintained and the product packaging remains sealed, then a shelf life of one year can be expected. TamCem 422R will freeze but will return to full functionality after thawing and thorough remixing.

HEALTH & SAFETY

TamCem 422R 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.